

PERMANENT INTERNATIONAL ASSOCIATION
OF
Navigation Congresses

38, Rue de Louvain, 38

BRUSSELS



SHIPBUILDING FROM ITS
BEGINNINGS



VOL. III





SHIPBUILDING
FROM
ITS BEGINNINGS



SHIPBUILDING FROM ITS BEGINNINGS

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BRUSSELS

VOL. III

ARK VAN NOACH.
NOAH'S ARK. ARCHE. NOAH
ARCHE DE NOË.



Voorstelling van Liranus (Van Yk).
Nach Liranus. — According to Liranus.
D'après Liranus (Van Yk).



Teekening (xvii^e eeuw)
Zeichnung (17. Jahrhundert). — Drawing of the 7th century
Dessin du xvii^e siècle.



Neurenberger Kroniek
Nürnberg Chronik. — Chronicle of Nuremberg.
Chronique de Nuremberg.

Fig. 1.



Volgens Wilhelm Goeree.
Nach Wilhelm Goeree. — According to Wilhelm Goeree.
D'après Guillaume Goeree.



Volgens Van Yk.
Nach Van Yk. — According to Van Yk.
D'après Van Yk.

VIKINGER SCHIP.
WIKINGERSCHIFF. VIKING SCHIP.
BATEAU DES VIKINGS.

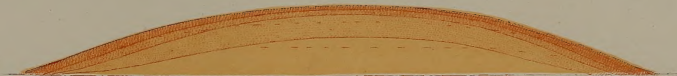
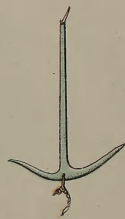


Fig. 2.



1200
Fig. 3



1300
Fig. 4



1400 Fig. 5

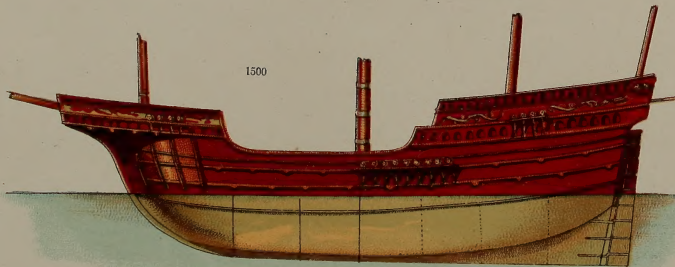
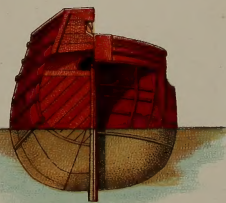


Fig. 6



Amsterdamer Fuss

Amsterdamsche voeten



Amsterdam feet

Pieds d'Amsterdam

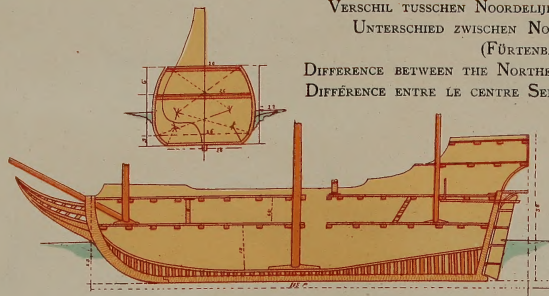
VERSCHIL TUSSEN NOORDELIJK EN ZUIDELIJK CENTRUM.

UNTERSCHIED ZWISCHEN NORD- UND SÜDZENTRUM

(FÜR TENBACH)

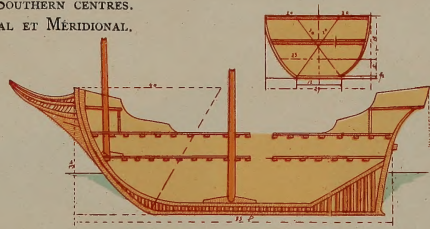
DIFFERENCE BETWEEN THE NORTHERN AND SOUTHERN CENTRES.

DIFFÉRENCE ENTRE LE CENTRE SEPTENTRIONAL ET MÉRIDIONAL.



Noordzee (Holland)
North Sea

Nordsee (Holland)
Mer du Nord



Middelandsche Zee
Mittelmeer

Mediterranean Sea
Mer Méditerranée

Fig. 7

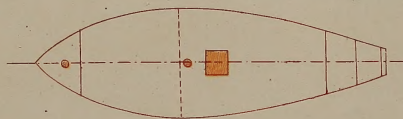
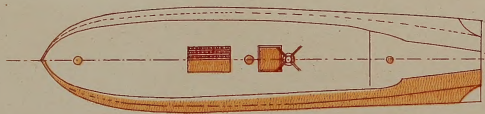


Fig. 8



Platte grond
Plan
Ebene



Amsterdamsche voeten
van 11 duim

PINASSE

PINASSCHIP
1625
PINASSE

PINNACE

1625
Amsterd. voeten

PINASSCHIP
PINASSE

PINNACE
PINASSE

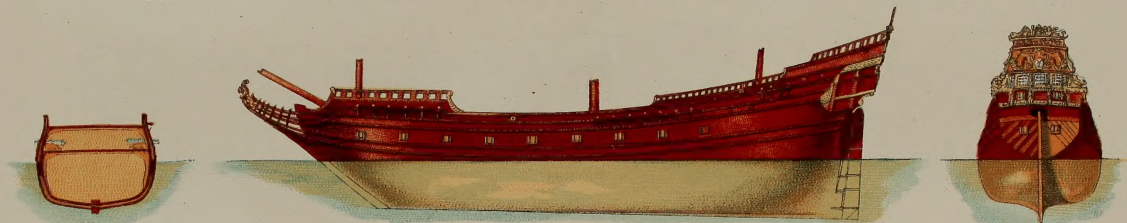


Fig. 8

PINASSCHIP
PINASSE

1678

PINNACE
PINASSE

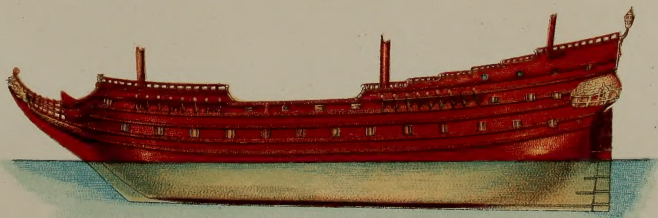
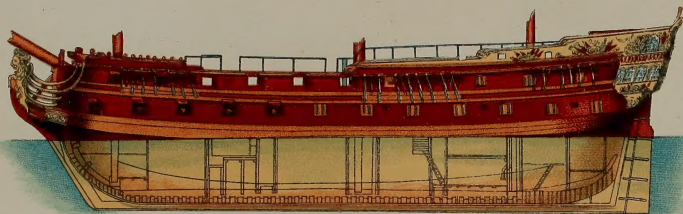


Fig. 9

SCHIP VAN OORLOG — 50 KANONNEN
1757



KRIEGSSCHIFF
50 KANONEN

MAN OF WAR
50 GUNS

NAVIRE DE GUERRE
50 CANONS



Amsterdamsche voeten

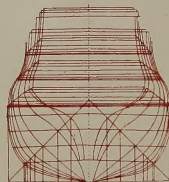
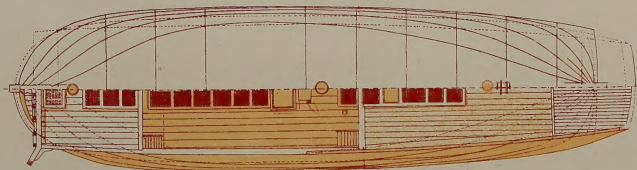
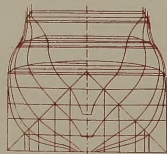
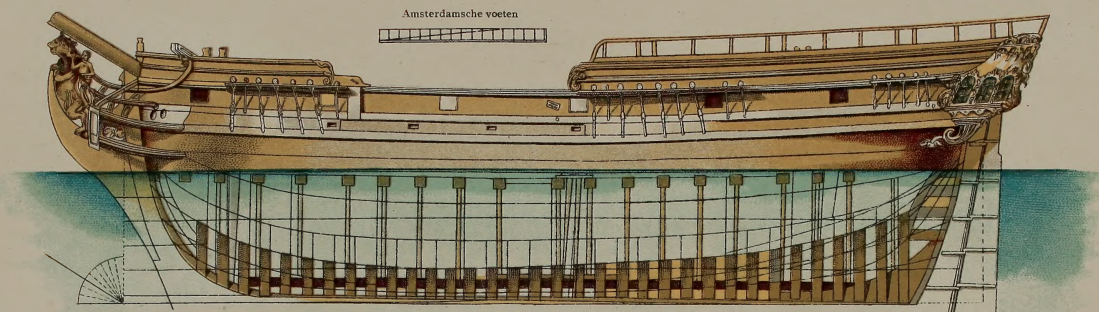


Fig 10



OOST-INDISCH
COMPAGNIE SCHIP

SCHIFF DER OSTINDISCHEN
KOMPAGNIE

1750

EAST INDIA
COMPANY'S SHIP

NAVIRE DE LA COMPAGNIE
DES INDÉS

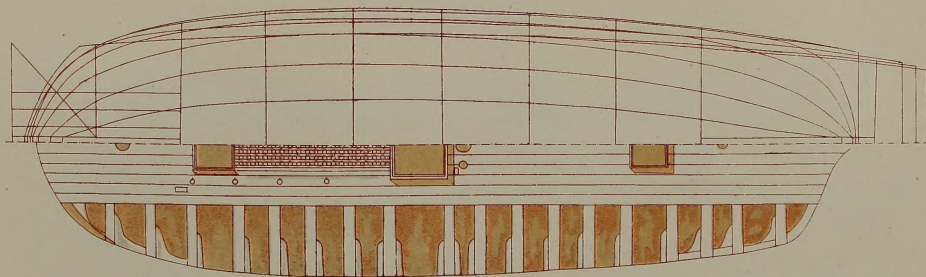


Fig. 11

O. I. COMPAGNIE SCHIP
 SCHIFF DER OSTINDISCHEN COMPAGNIE 1750 EAST INDIA COMPANY'S SHIP
 NAVIRE DE LA COMPAGNIE DES INDES

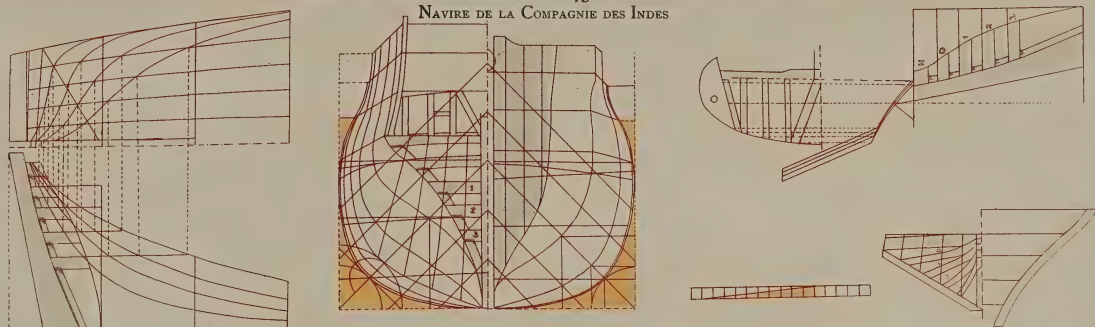


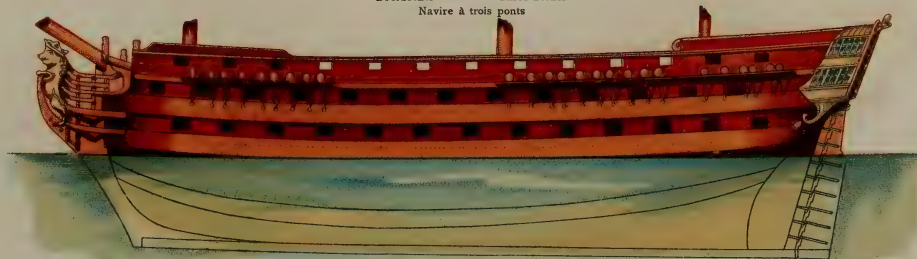
Fig. 11

SCHIP
 KRIEGSSCHIFF
 NAVIRE

Amsterdamsche voeten

VAN OORLOG
 MAN OF WAR
 DE GUERRE

Driedecker
 Dreidecker
 Navire à trois ponts



1770

Fig. 12

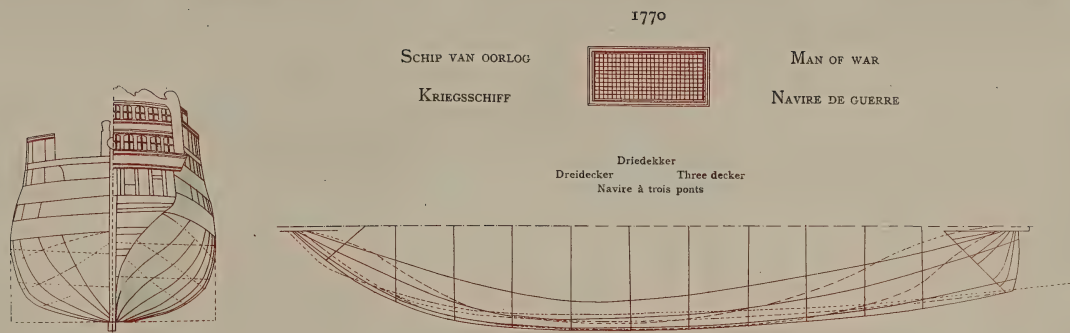
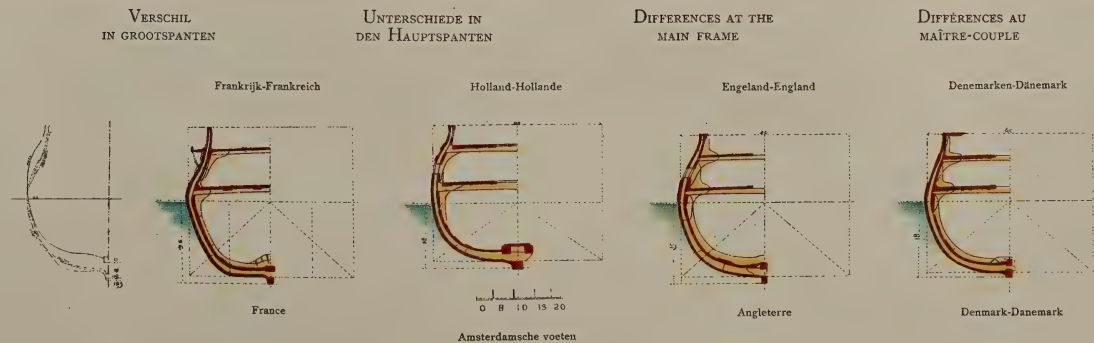


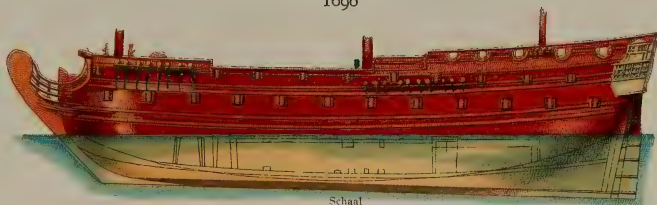
Fig. 12



1750

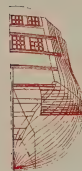
Fig. 13

1690



SCHIP VAN OORLOG
ENGELAND
NAVIRE DE GUERRE
ANGLETERRE

Schaal
Maasstab 1:800 Scale
Echelle

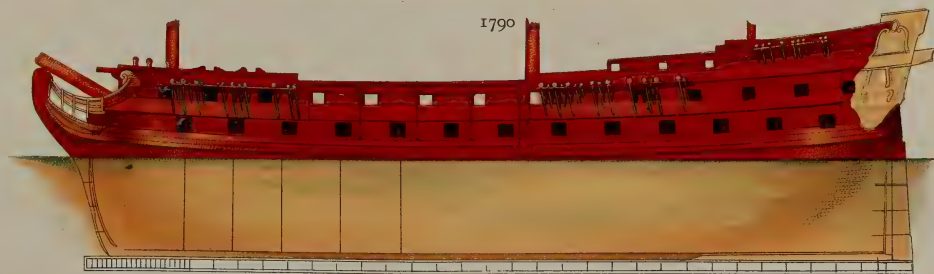


KRIEGSSCHIFF
ENGLAND

MAN OF WAR

Fig. 14

1790

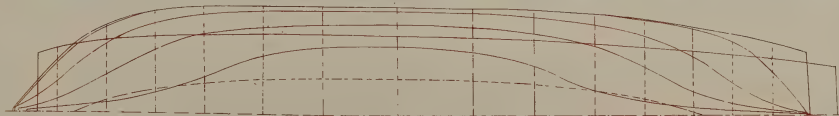


SCHIP VAN OORLOG

NAVIRE DE GUERRE

KRIEGSSCHIFF

MAN OF WAR



Frankrijk

France

Frankreich

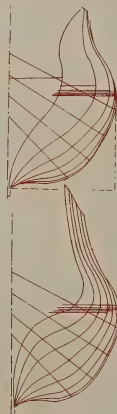
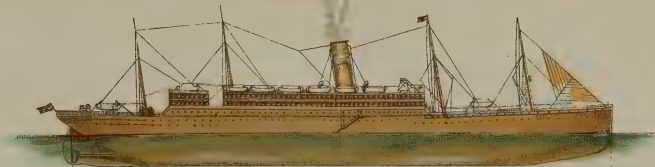


Fig. 15



1500

1905



SS. : Nieuw Amsterdam

183 M

PAQUEBOT « NIEUW AMSTERDAM » POSTSCHIFF

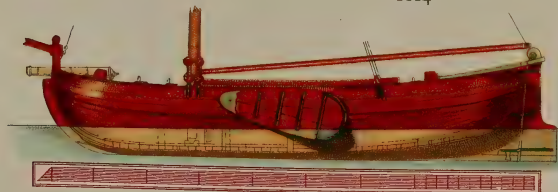
Fig. 16



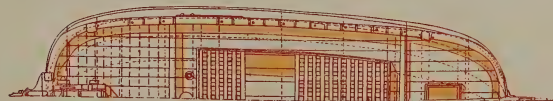
40 M

1750

1814



Amsterdamsche voeten



KUSTBEWAARDER, MET 12 PONDER

KÜSTENWACHTSCHIFF

MIT 12 KANONEN

COAST GUARD

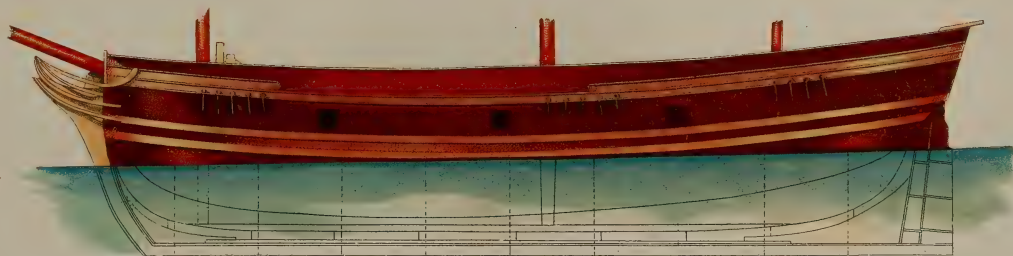
CARRYING 12 PDRS

GARDE-CÔTE AVEC PIÈCES DE 12

Fig. 17

FREGATTE FREGAT FRIGATE
 FRÉGATE

Schaal
 Massstab 1 : 175 Scale
 Echelle



KOOPVARDISCHIP
 KAUFFAHRTSCHIFF 1800 MERCHANT SHIP
 NAVIRE MARCHAND

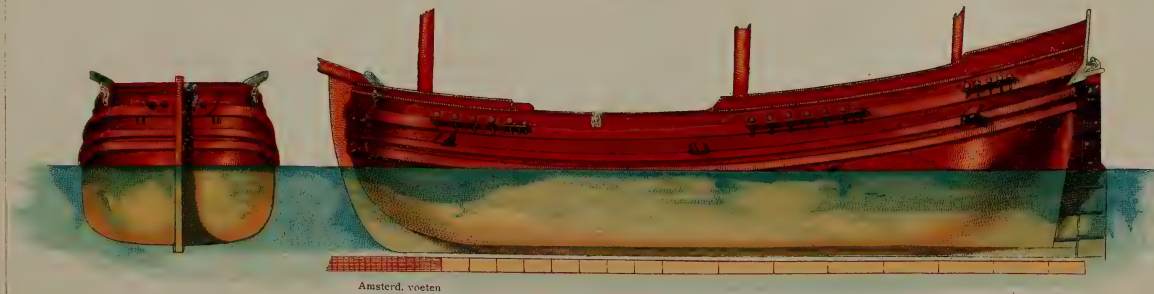
Fig. 18

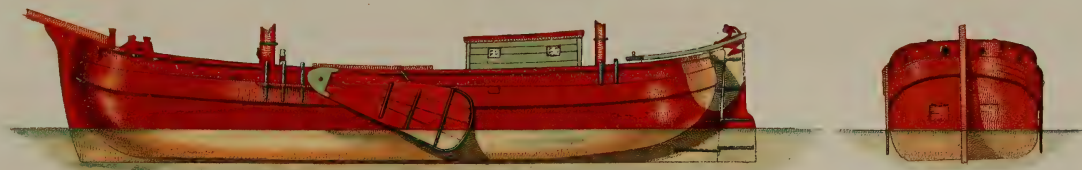
Fig. 19

Achterschip
Schiffshinterteil — Stern
Poupe

Voorschip
Schiffsvorderteil — Bow
Proue

FLUIT
1803
FLUTE FLÜTE





GALJOOT — GALLIOT — GALIOT — GALIOTE

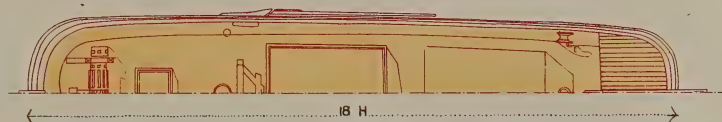


Fig. 20

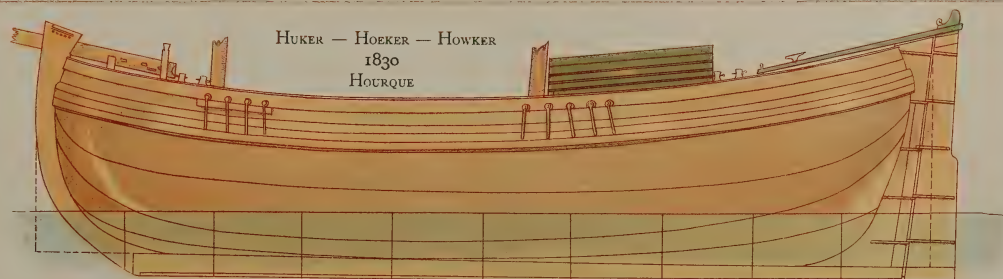
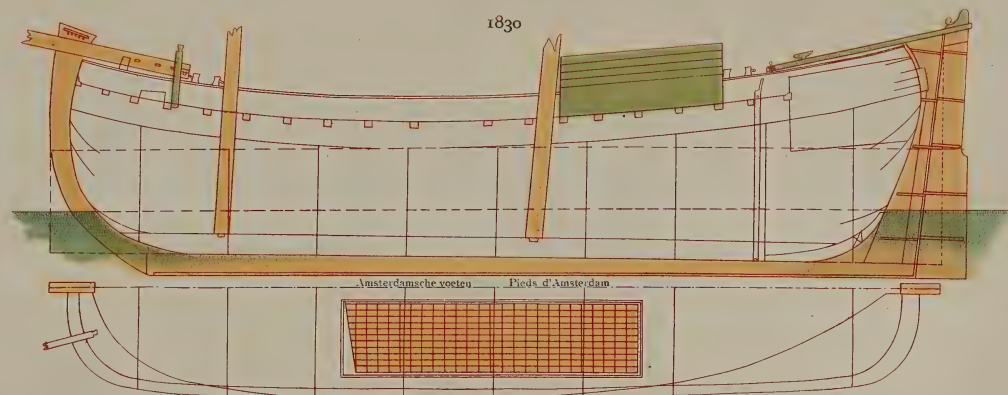
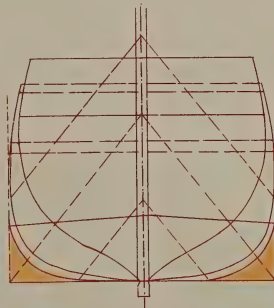


Fig. 21



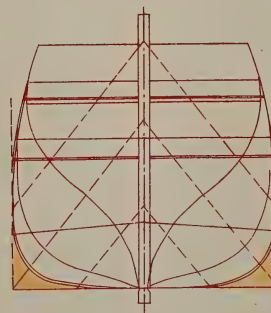
HOEKER — HUKER — HOWKER — HOURQUE



Voorschip
Schiffsvorderteil — Bow
Prone

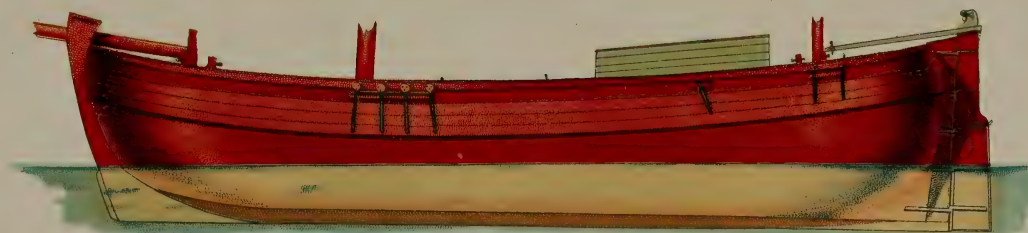


Amsterdamse voeten

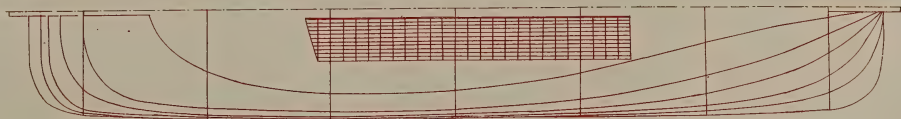


Achterschip
Schiffshinterteil — Stern
Poupe

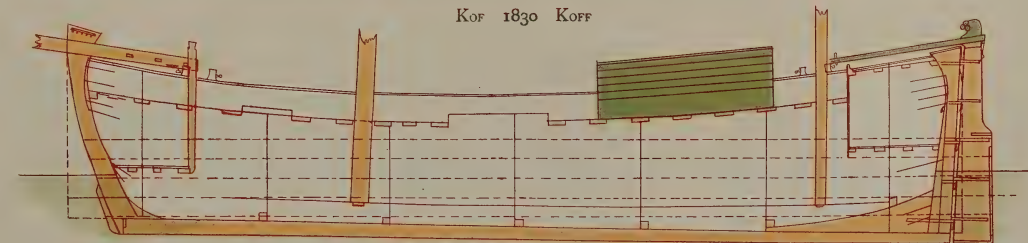
Fig. 21



Amsterdamsche voeten



Kof 1830 Koff



Amsterdamsche voeten

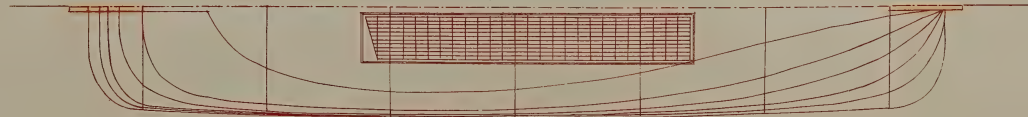


Fig. 22

KOF 1830 KOFF

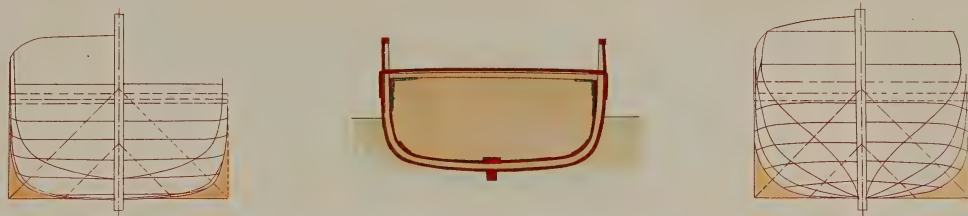
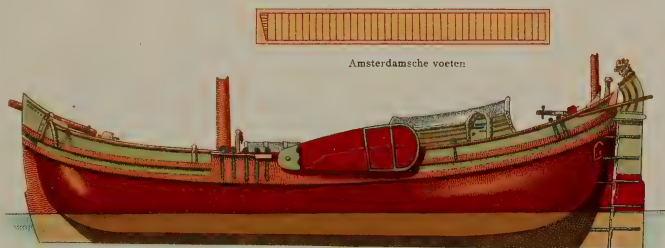


Fig. 22



Amsterdamsche voeten

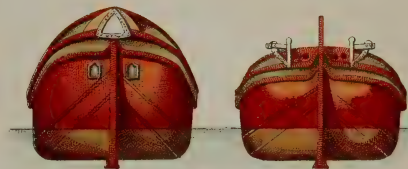
SMACK 1777 SMACK
SEMAQUE

Fig. 23

Hov. KAAG. KAG. CAGUE.

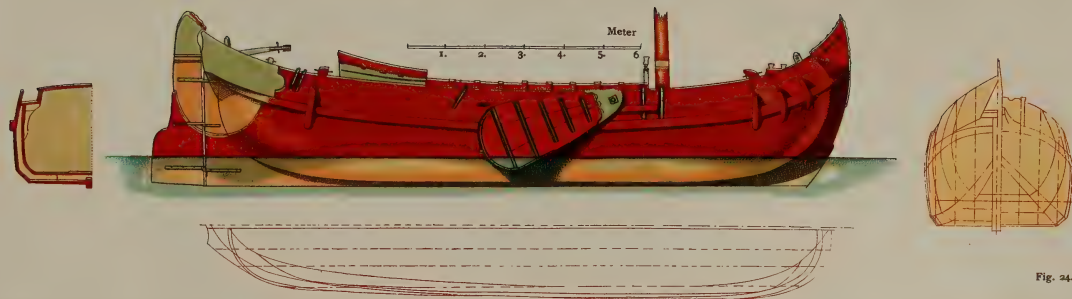
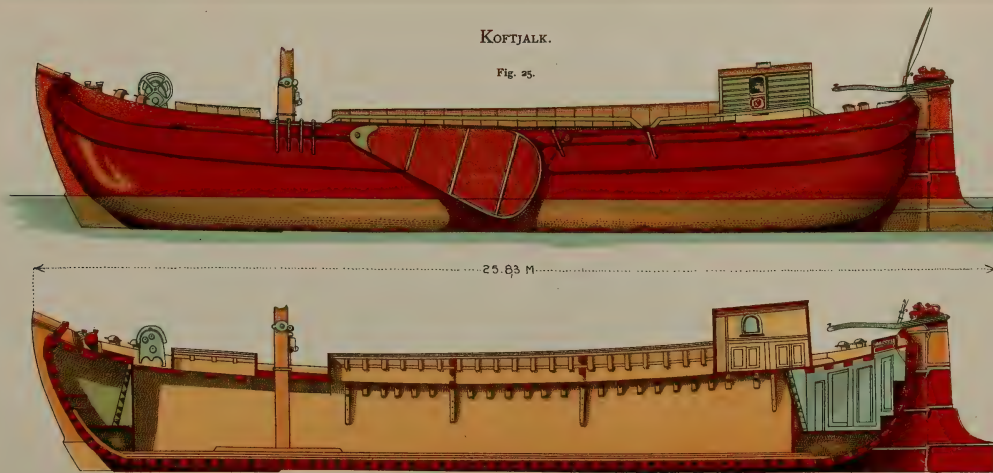


Fig. 24.

KOFTJALK.

Fig. 25.



KOPTJALK.

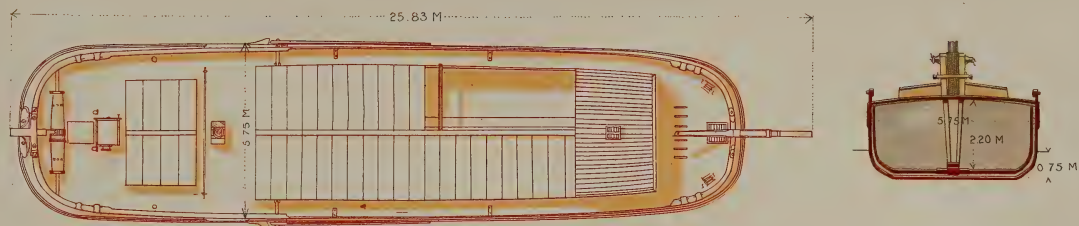


Fig. 25.

TJALK.
(DRAAI-OVER-BOORD)

TJALK MIT DREH ÜBER BORD.

HOY, WITH TILLER SWINGING OVER THE GUNWALE.

TIALQUE AVEC « DRAAI-OVER-BOORD ».

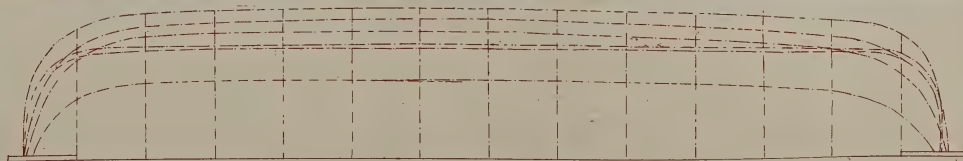
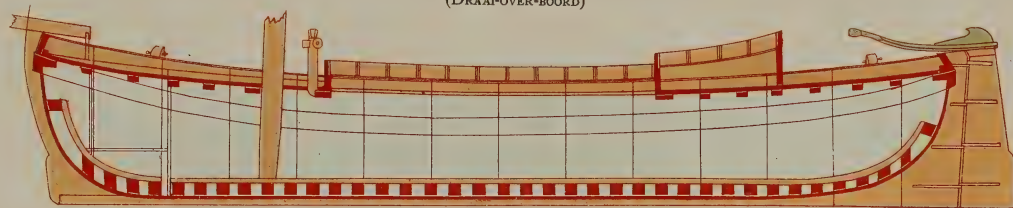


Fig. 26.

TJALK.
(DRAAI-OVER-BOORD)



TJALK MIT DREH ÜBER BORD.

Hoy, WITH TILLER SWINGING OVER THE GUNWALE.

TJALQUE AVEC « DRAAI-OVER-BOORD ».

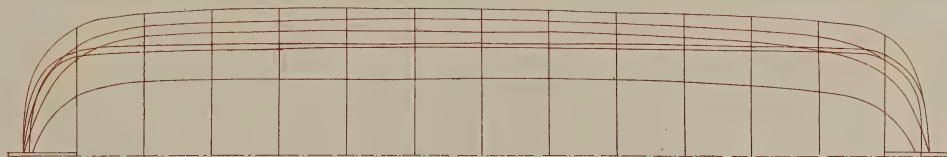
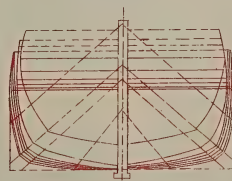
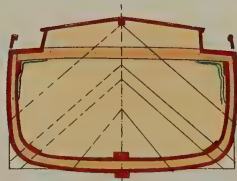
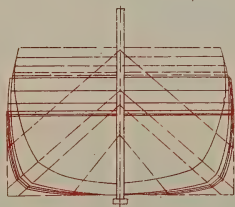


Fig. 26.



Amsterdamsche voeten van 11 duim.

ZUID-HOLLANDSCHE GAFFELTJALK.
 SUD-HOLLANDISCHE GAFFELTJALK. GAFFELTJALK OF SOUTH HOLLAND.
 GAFFELTJALK DE LA HOLLANDE MÉRIDIONALE.

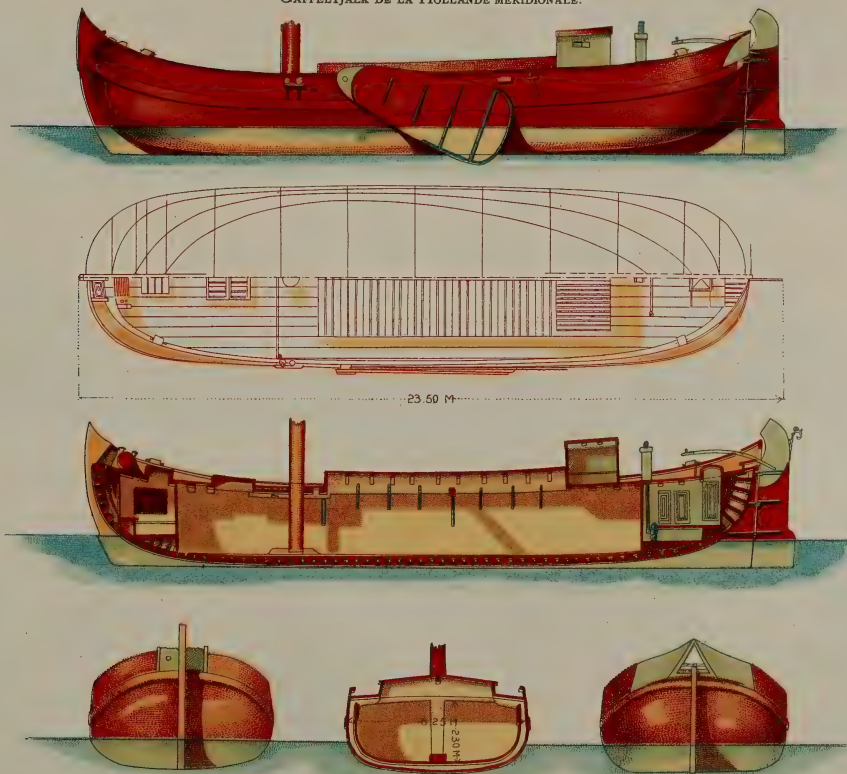
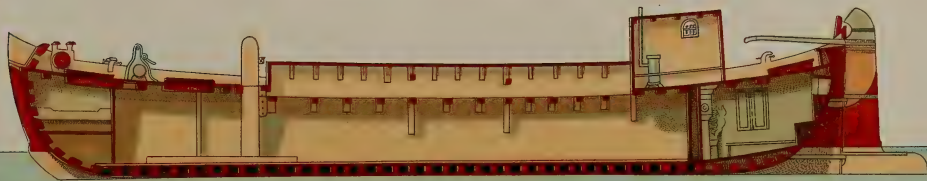
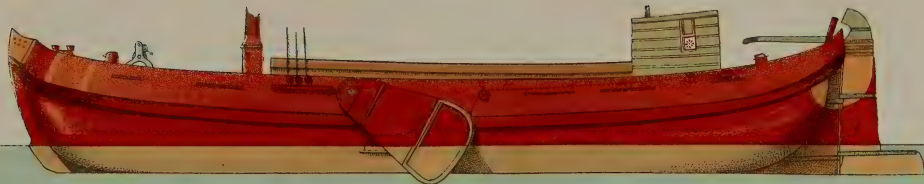


Fig. 27.

« STATIETJALK. »



Schaal
 Maasstab 1 : 100 Scale
 Echelle

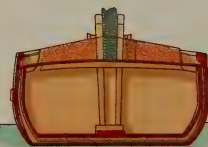
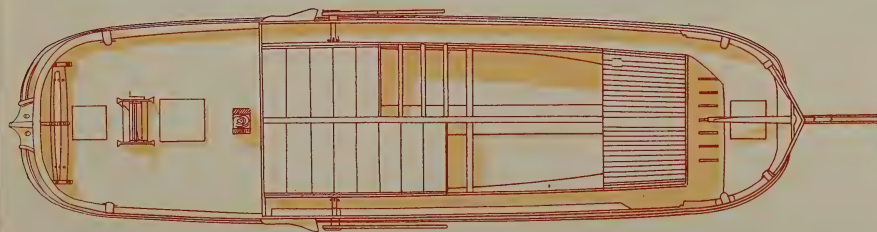


Fig. 26.

HEK- OF STATIETJALK.
 HECK- ODER STATIETJALK. HEK- OR STATIETJALK.
 « HEK- » OU « STATIETJALK ».



Schaal
 1 : 100
 Echelle
 Scale

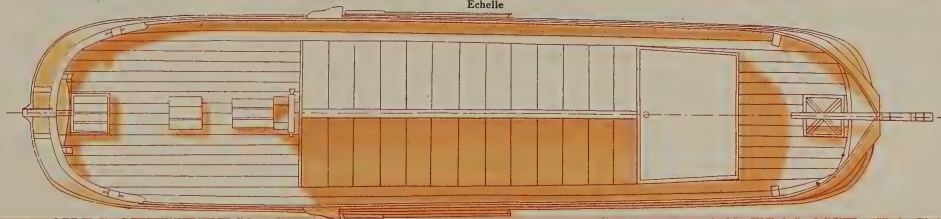


Fig. 29.



« AAKTJALK. »

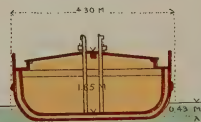
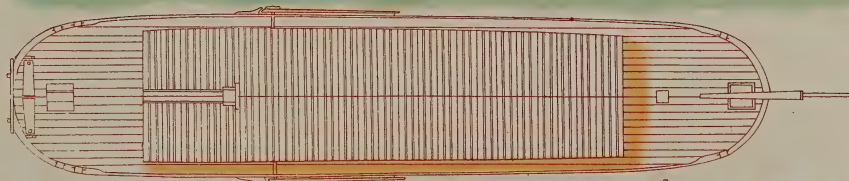
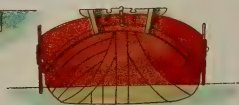
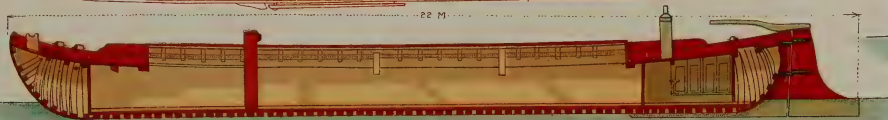


Fig. 30.



SOMP OF PEGGE.
 SOMP ODER PEGGE, SOMP OR PEGGE.
 « SOMP » OU « PEGGE ».

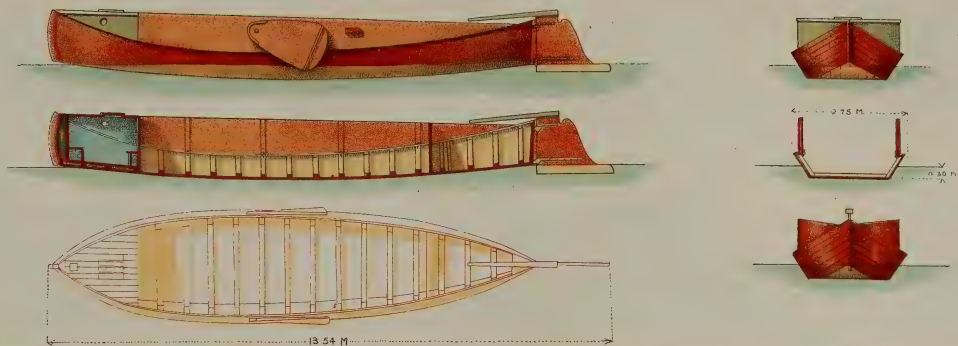


Fig. 31.

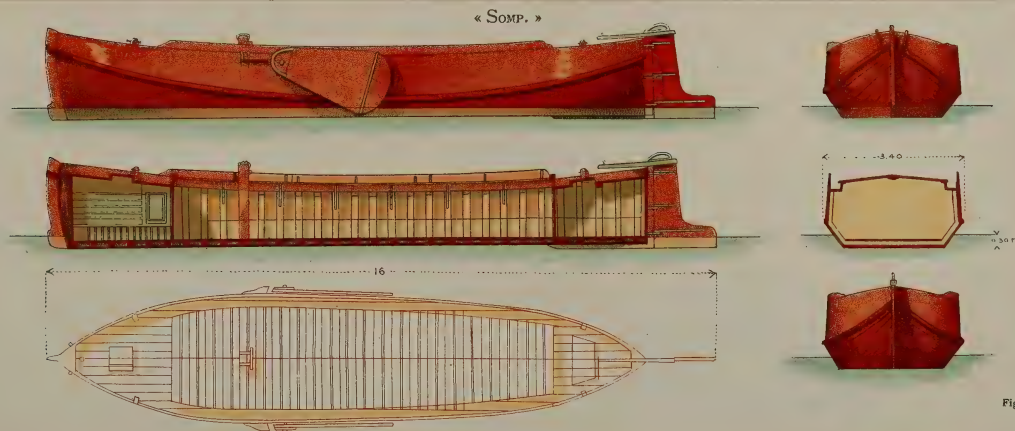


Fig. 32.

« BEURTSOMP. » — RANGSCHIFF.



Schaal

Massstab 1 : 100 Scale

Echelle

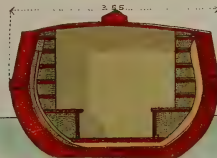
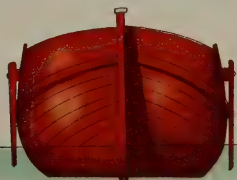
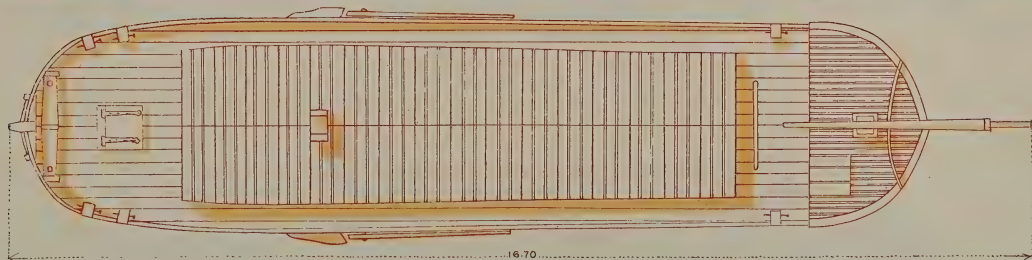


Fig. 33.

« SNIJBOON. » — BOHNE.

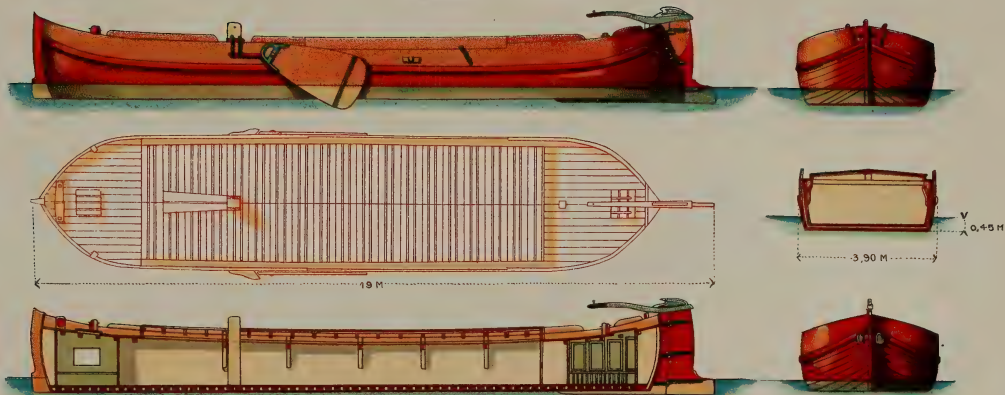


Fig. 34.

OVERIJSELSCH E PRAAM.

PRAHM VON OVERIJSEL.

PRAM FROM OVERIJSEL.

PRAME DE L'OVERIJSEL.

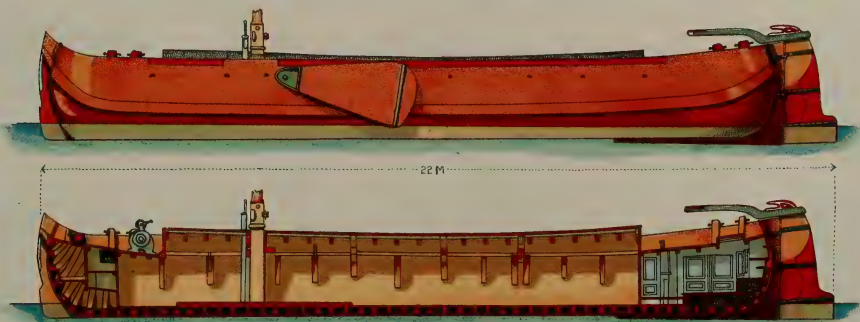


Fig. 35.

PAVILJOENPRAAM.

PRAHM MIT UNTERBROCHENEM DECK.

PRAM WITH PAVILJOENDEK.

PRAME A PONT COUPÉ (PAVILJOENPRAAM).

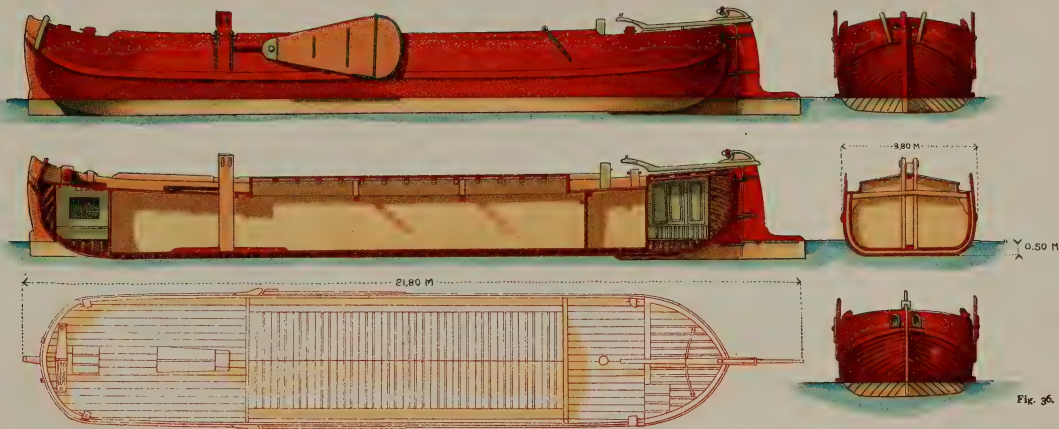


Fig. 36.

• PRAAMAAK. »

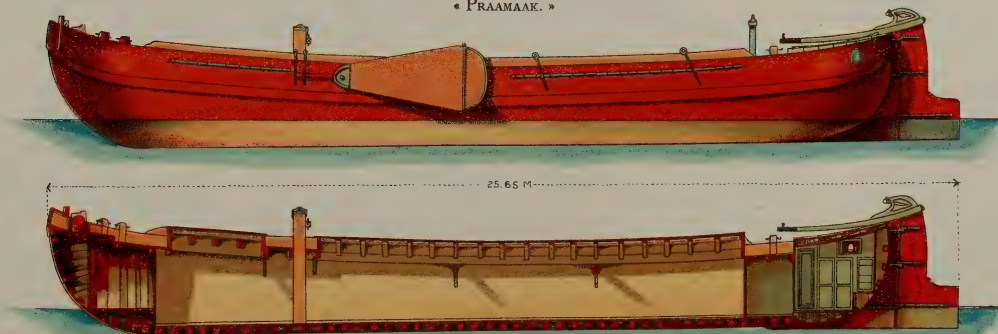


Fig. 37.

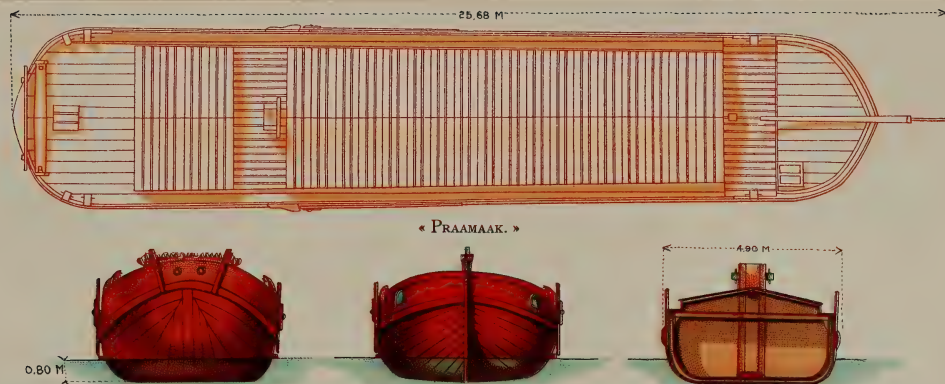


Fig. 38.

HOOGEVEENSCH PRAAM.

HOOGEVEENSCH PRAHM.

PRAM FROM HOGEVEEN.

PRAME D'HOGEVEEN.

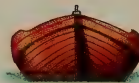
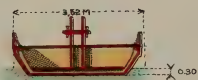
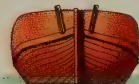
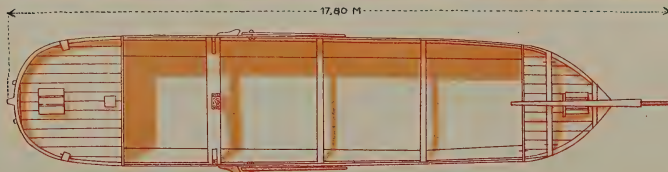
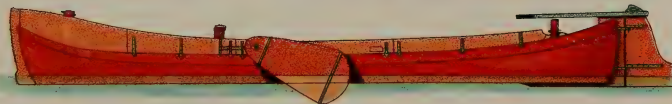


Fig. 39.

ZEEUWSCHE POON.

SEELÄNDISCHE POON.

SCOW FROM ZEELAND.

POON DE LA ZÉLANDE.

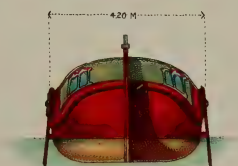
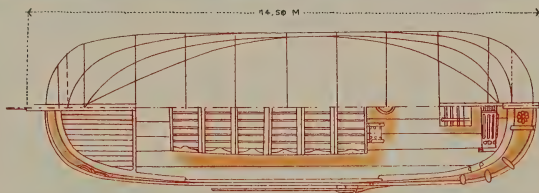
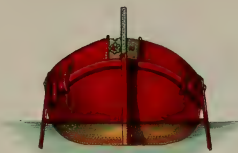
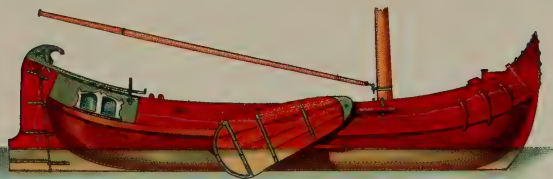


Fig. 40.

« STATIE POON. »

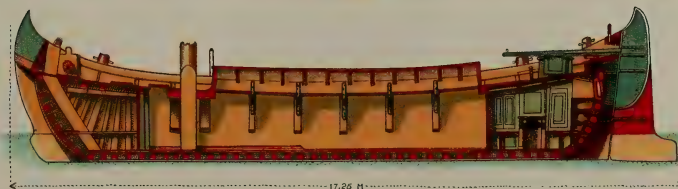


Fig. 41.

« STATE POON. »

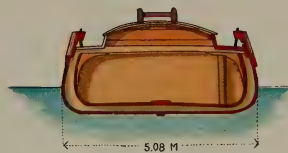
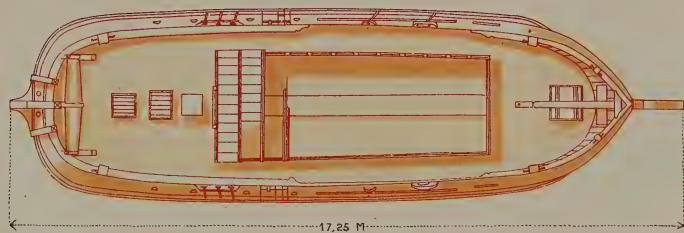


Fig. 41.

« STATE-PAVILJOEN-POON. »

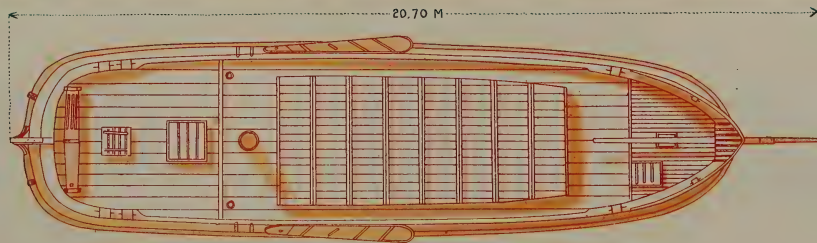


Fig. 42.

« STATIE-PAVILJOEN-POON. »

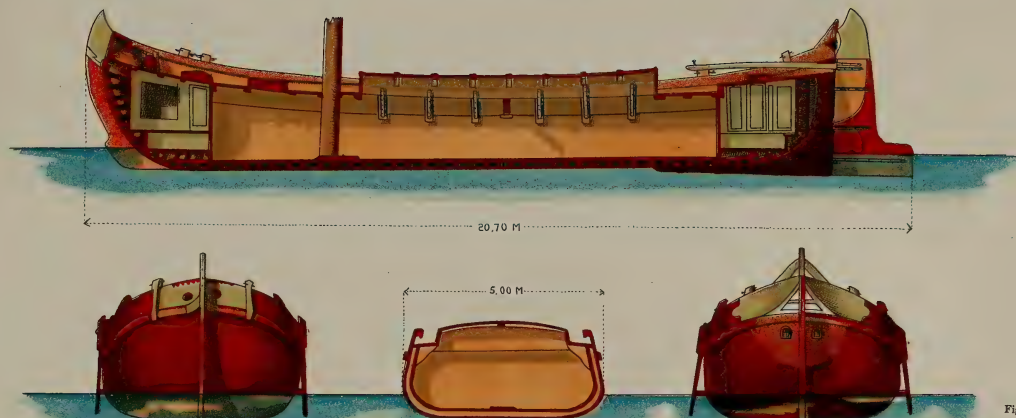


Fig. 42.

« PAVILJOEN POON. »

« STATIEPOON. »

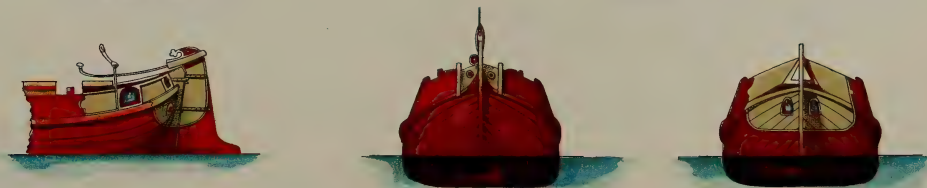
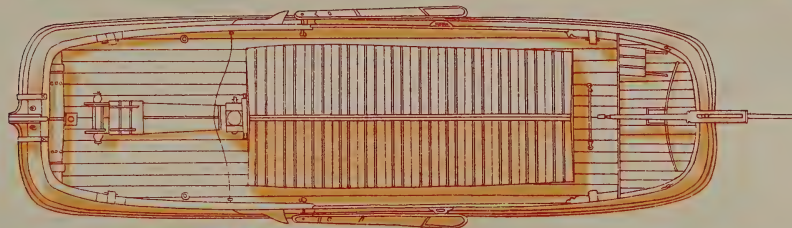


Fig. 43.



Schaal
1 : 100
Massstab



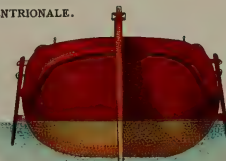
Scale
1 : 100
Echelle



Fig. 44.

NOORD-HOLLANDSCH YACHT.
NORTH HOLLAND TENDER.

NORD-HOLLÄNDISCHE YACHT.
YACHT DE LA HOLLANDE SEPTENTRIONALE.



NOORD-HOLLANDSCH YACHT.

NORD-HOLLÄNDISCHE YACHT.

NORTH HOLLAND TENDER.

YACHT DE LA HOLLANDE SEPTENTRIONALE.

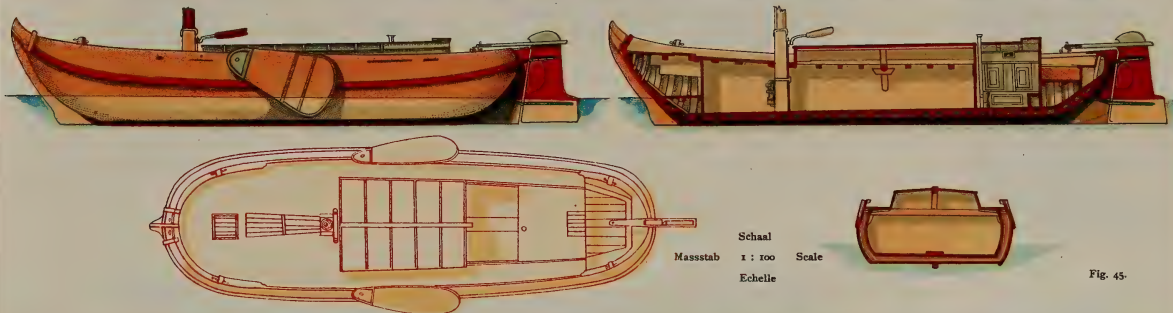


Fig. 45.

BOEIERSCHUIT — BUJERSCHÜTE.

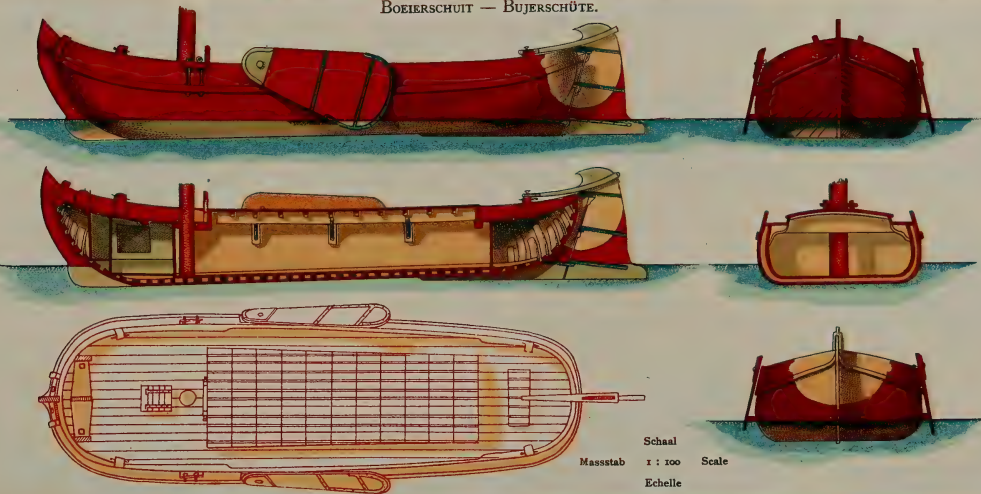
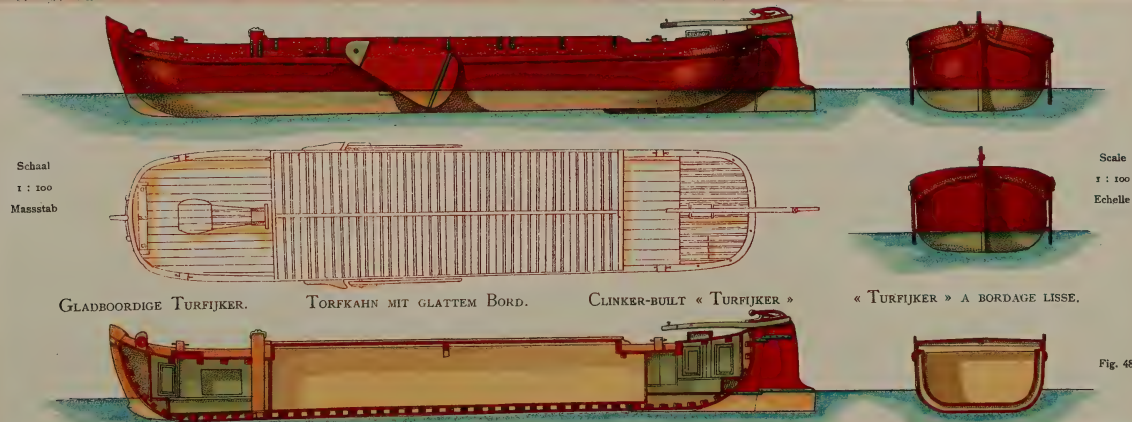
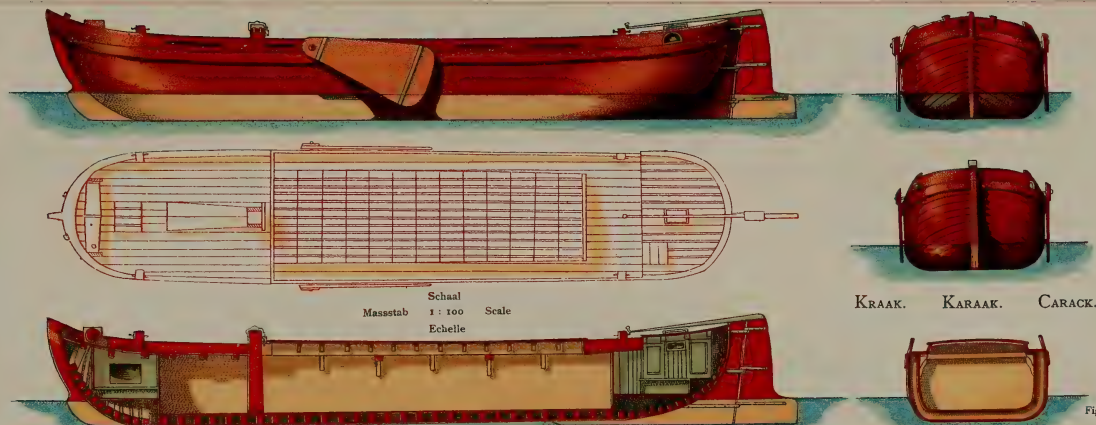
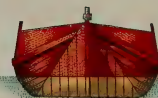
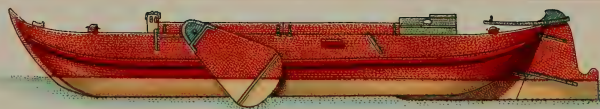


Fig. 46.

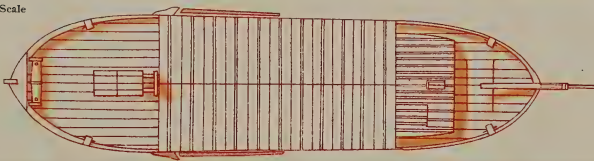




Schaal

Maasstab 1:100 Scale

Echelle



BOEIERAAK.

BUJERAAK.

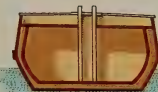
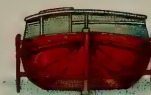
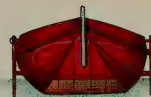


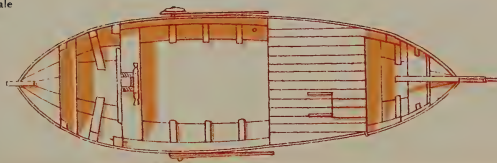
Fig. 49.



Schaal

Maasstab 1:100 Scale

Echelle

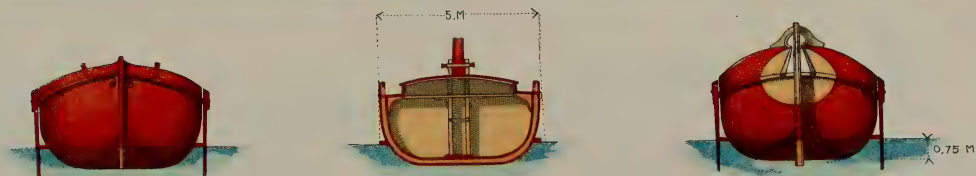


BOEIERAAKJE.

KLEINE BUJERAAK.



Fig. 50



VLAAMSCH E PLEIT.

FLAMISCHE PLEIT.

FLEMISH PLEIT.

PLEIT FLAMAND.

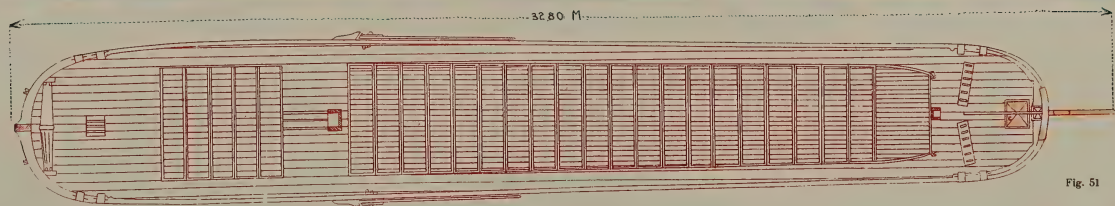
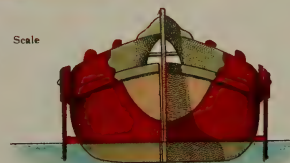
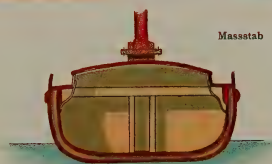
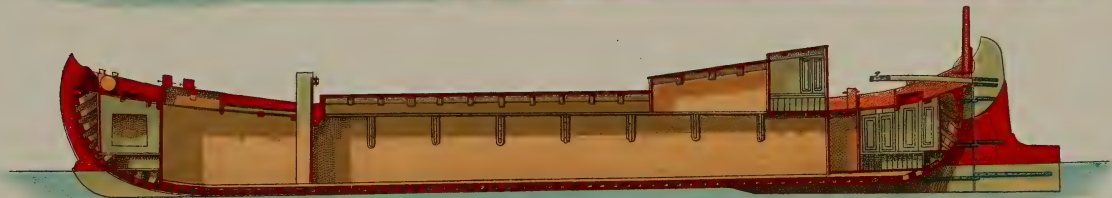
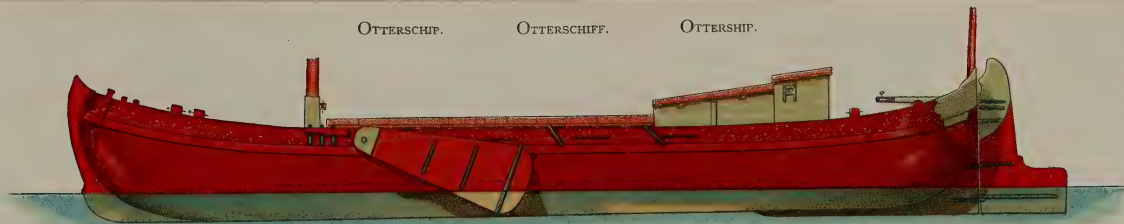


Fig. 51

OTTERSCHIP.

OTTERSCHIFF.

OTTERSCHIP.



Schaal
 Massstab 1:100 Scale
 Echelle

Fig. 52

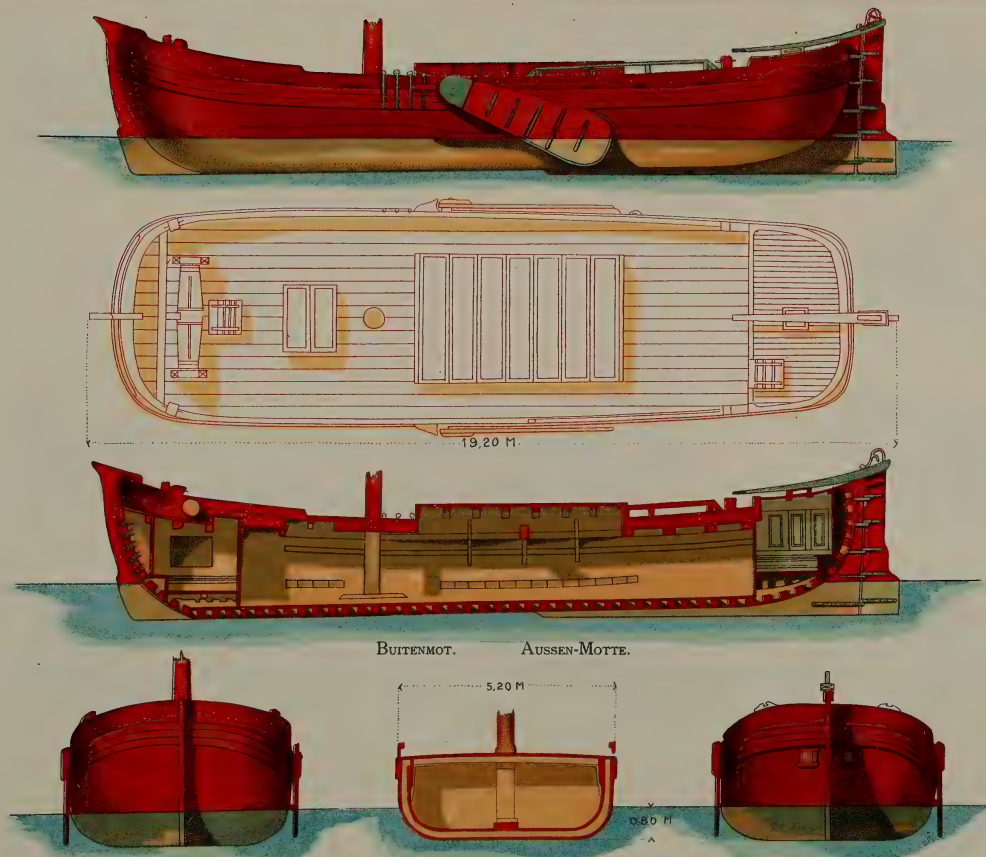
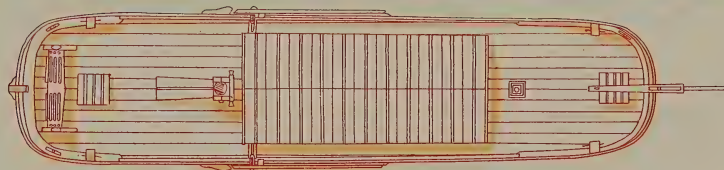


Fig. 53

BINNENMOT.

BINNEN-MOTTE.



Schaal
 Massstab 1:100 Scale
 Echelle



Fig. 54

SPITSEMOT.

SPITZ-MOTTE.



Schaal Massstab 1:100 Scale Echelle

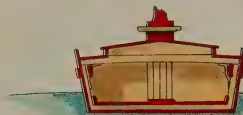
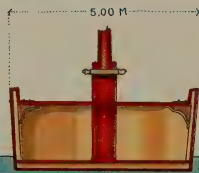
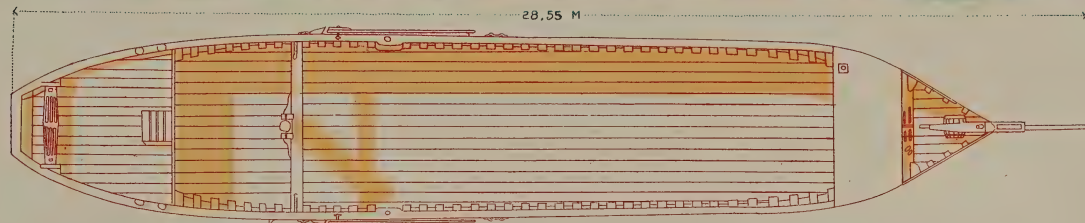


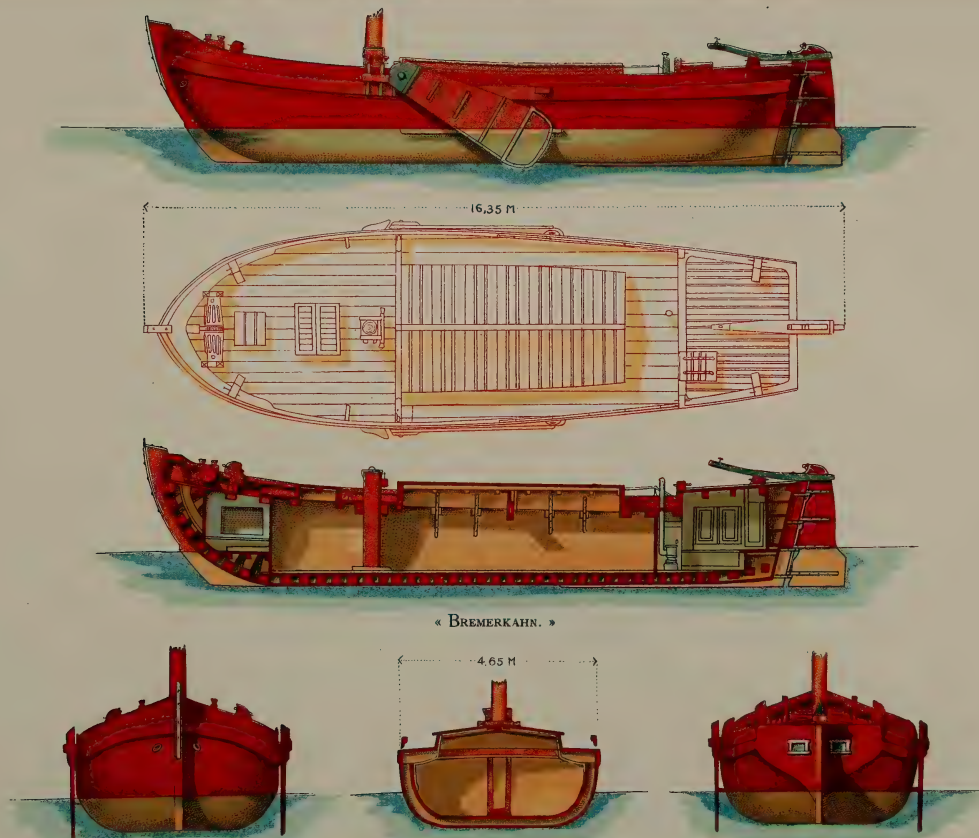
Fig. 55

« EEMSPUNT. »



0,40 M

Fig. 56.



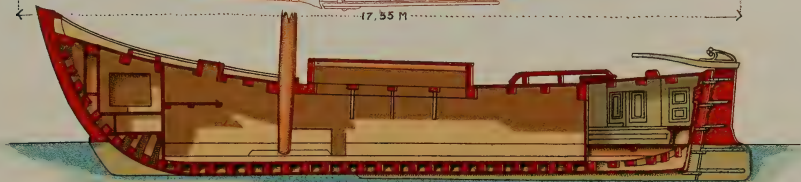
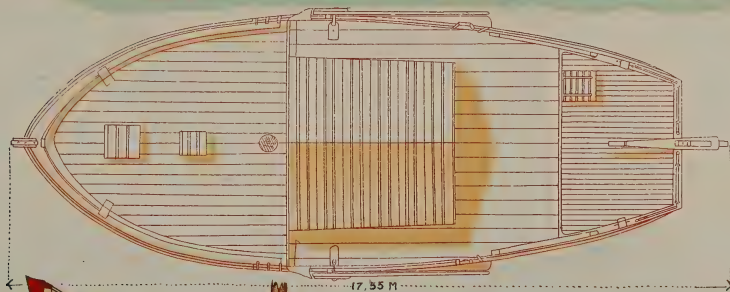
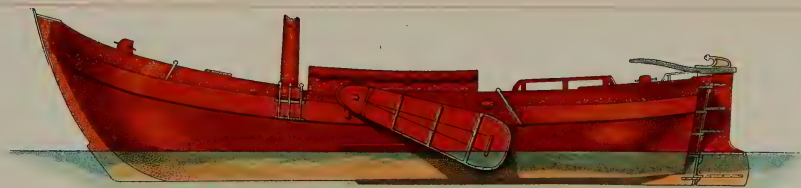
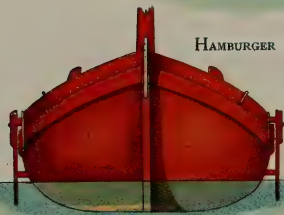
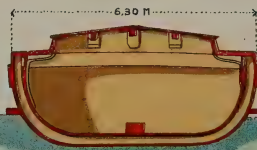


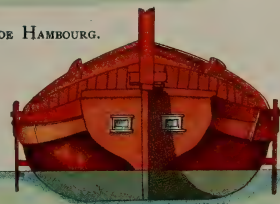
Fig. 58.



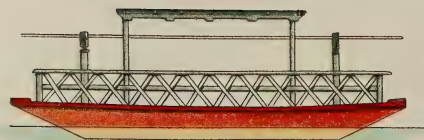
HAMBURGER EVER.



EVER FROM HAMBURG.



EVER DE HAMBOURG.



OVERHAALPONTJE.

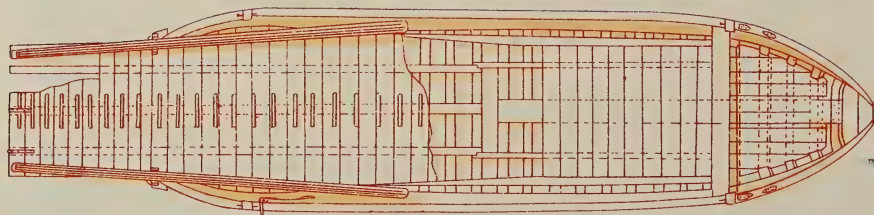
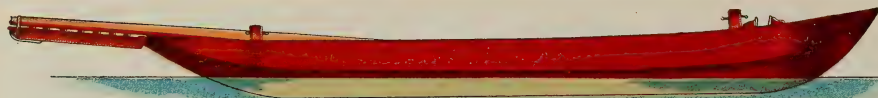
FÄHRNACHEN.

NACELLE.



Schussal
Maassstab 1:100 Scale
Echelle

Fig. 59

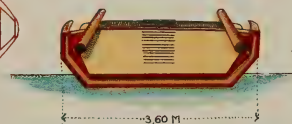


13.25 M



HALVE PONT.
HALB NACHEN.

Fig. 60.



3.60 M



JAAGPONT.

PFERDEFÄHRE.

PASSE-CHEVAL.

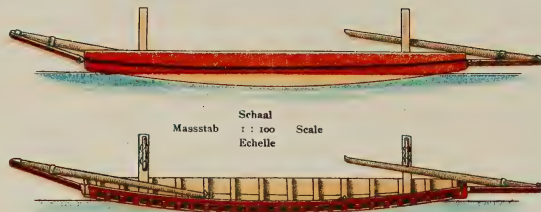
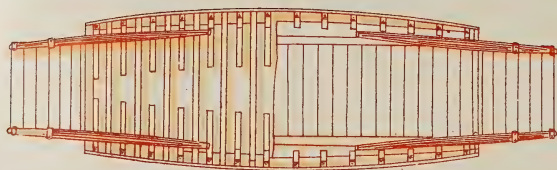


Fig. 61.

KABEL-VEERPONT.

KABELFÄHRE.

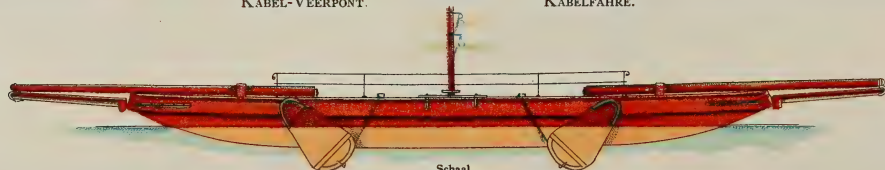
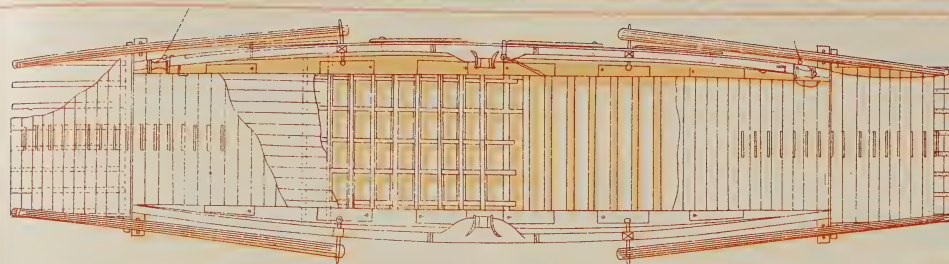


Fig. 62.



GIERPONT. GIERFÄHRE.

Schaal
 Massstab 1 : 100 Scale
 Echelle

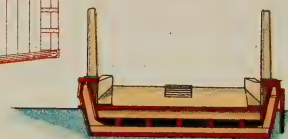
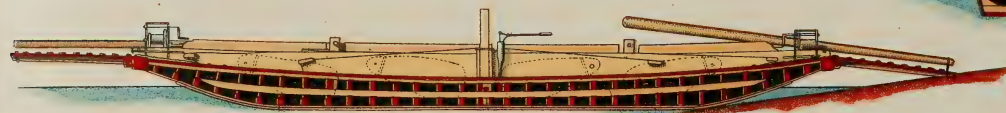


Fig. 63

« HALVE PONT. » (PIJPER)



Schaal Massstab 1 : 100 Scale Echelle

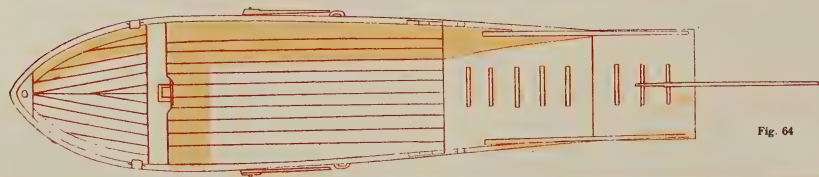


Fig. 64



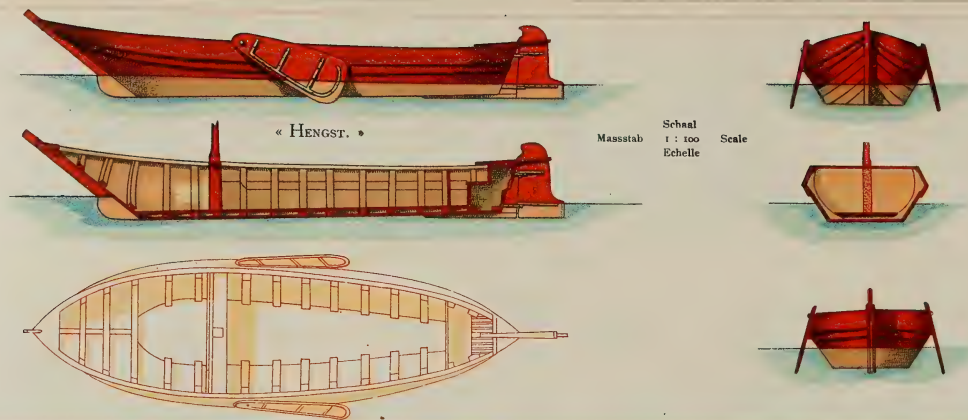


Fig. 65.

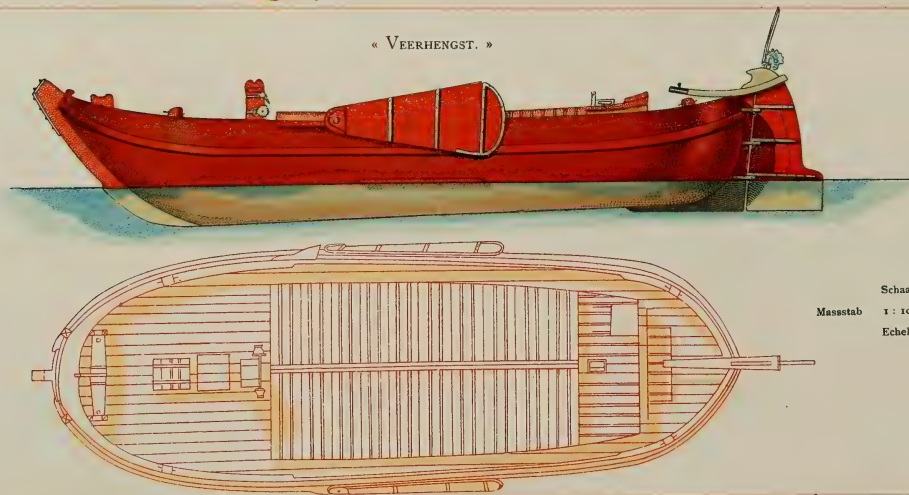


Fig. 66.

« VEERHENGST. »

Schaal
Maasstab 1 : 100 Scale
Echelle

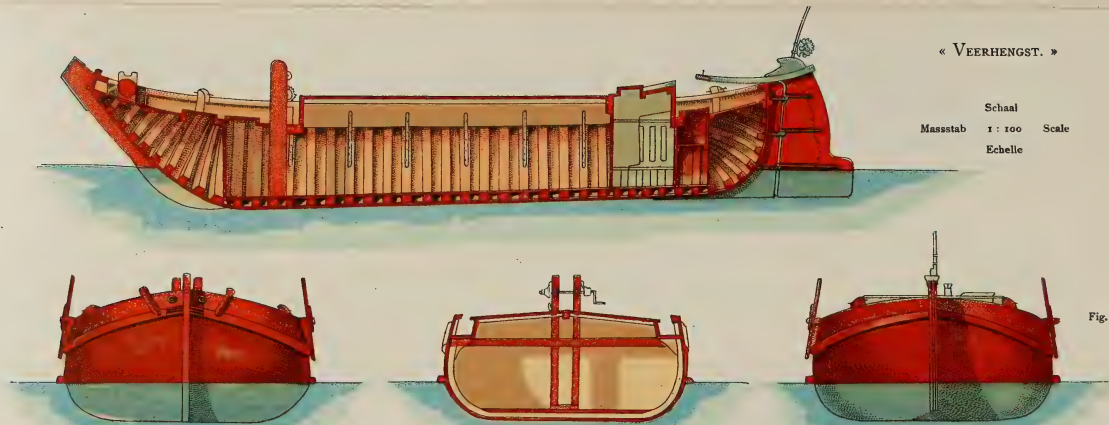


Fig. 66.

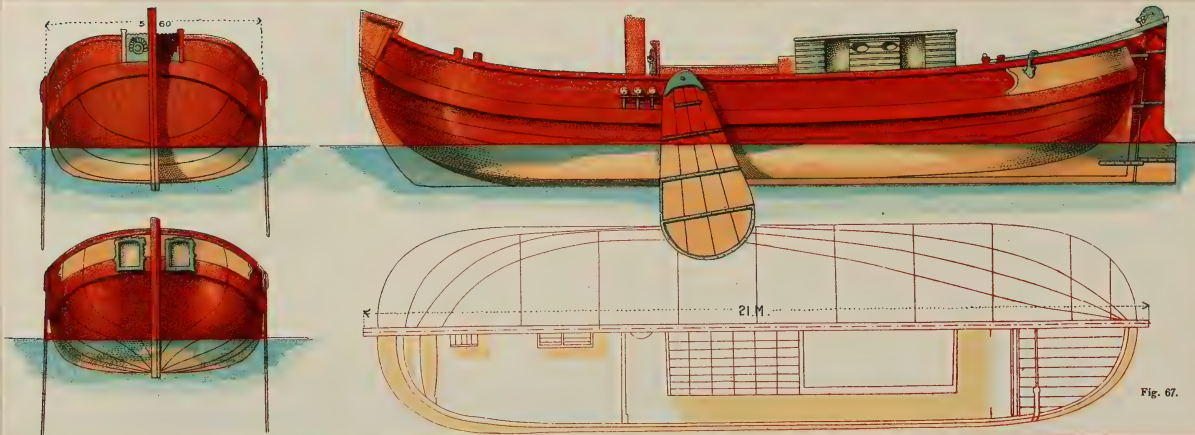


Fig. 67.

VEERMAN VAN LEMMER OP AMSTERDAM.
VEERMAN FROM LEMMER TO AMSTERDAM.

FÄHRKAHN VON LEMMER IN AMSTERDAM.
VEERMAN DE LEMMER A AMSTERDAM.

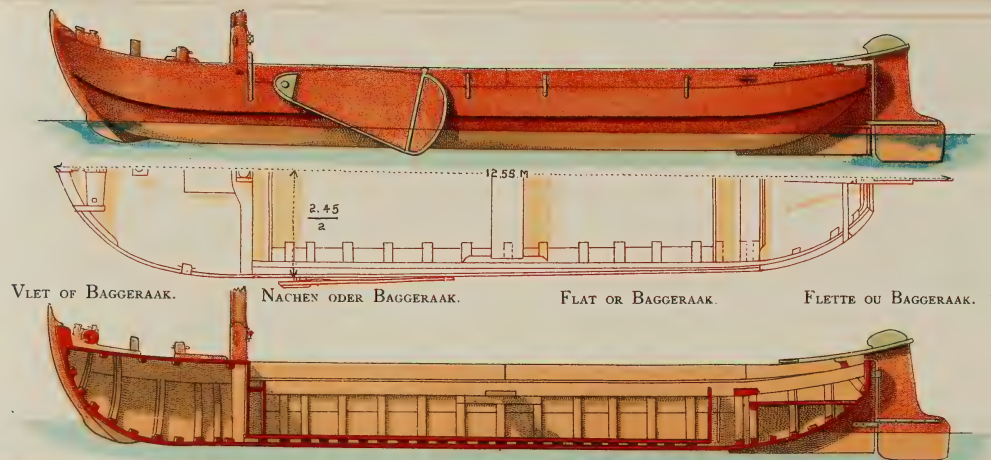


Fig. 68.

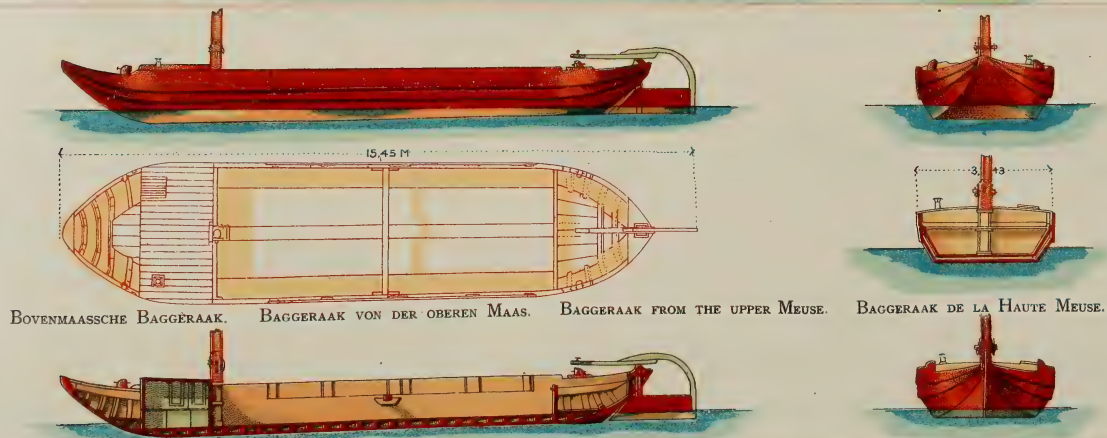
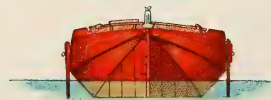
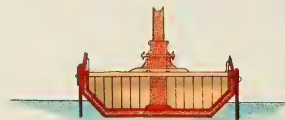
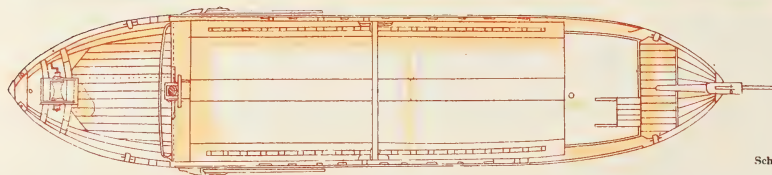
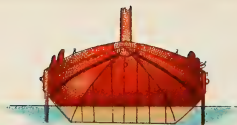


Fig. 69.

HEDELSCHIE AAK

AAE FROM HEDEL.

AQUE DE HEDEL.



Schaal

Massstab 1:100 Scale

Echelle

Fig. 70

SNIK (GONDEL).



Schaal
Massstab 1:100 Scale
Echelle

Fig. 71.

« DORTSCHE ZANDSCHUIT. »

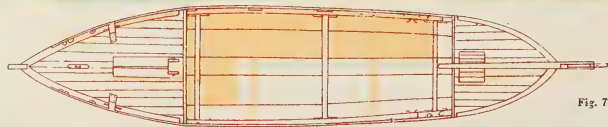


Fig. 72.



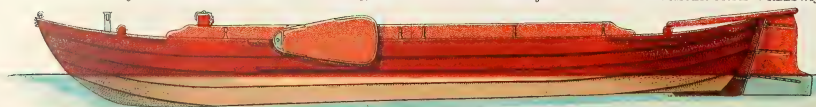
Schaal Massstab 1:100 Scale Echelle

VREESWIJSCHES ZANDLICHTER.

SANDLEICHTER VON VREESWIJK.

ZANDLICHTER FROM VREESWIJK.

ZANDLICHTER DE VREESWIJK.



Schaal

Maasstab 1 : 100 Scale

Echelle

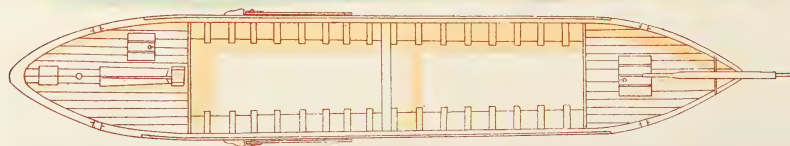
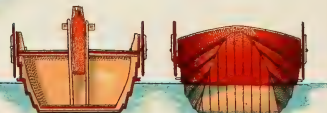


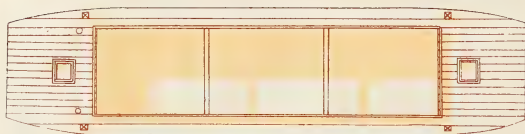
Fig. 73.

LAADBAK.

LEICHTER.

BARGE.

CHALAND.

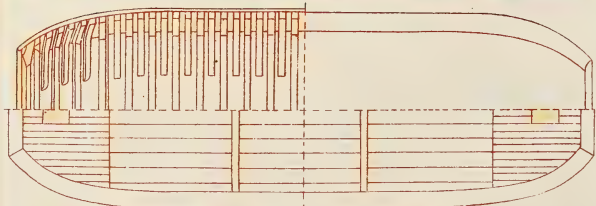
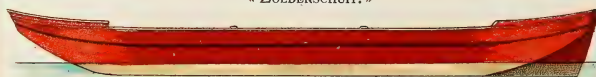


Schaal Maasstab 1 : 100 Scale Echelle

Fig. 74.



« ZOLDERSCHUIT. »



Schaal Maasstab 1 : 100 Scale Echelle

Fig. 75.



« ZOLDERSCHUIT. »



Schaal
 Maasstab 1 : 100 Scale
 Echelle

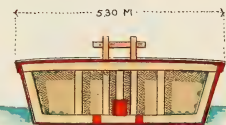
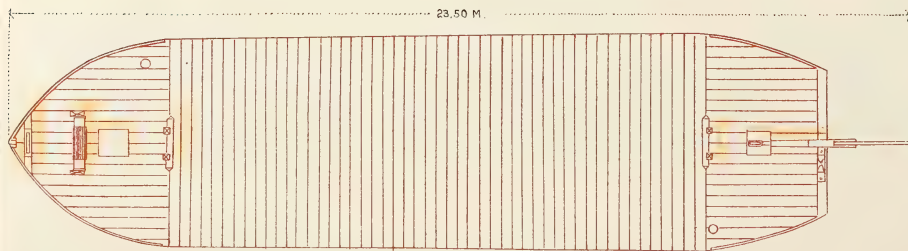
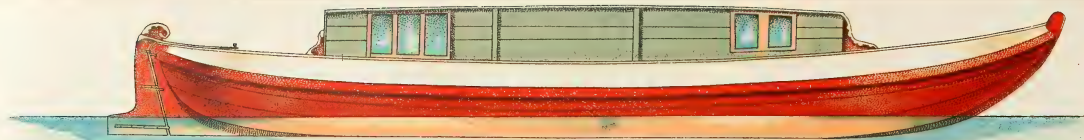


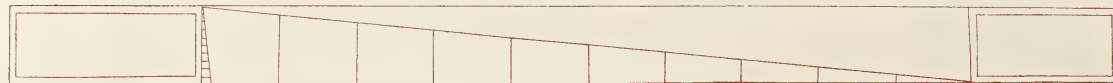
Fig. 76.



« TREKSCHUIT 1830. »



Fig. 77.



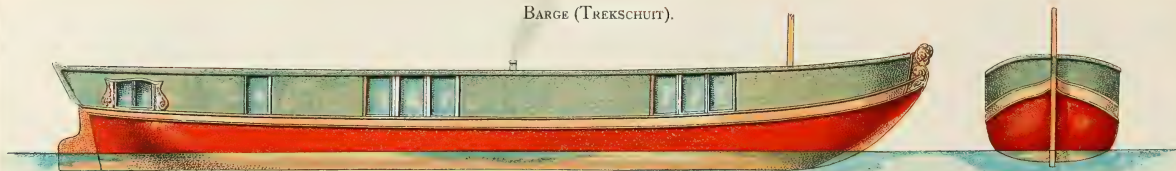
Schaal in ellen, palmen en duimen.

Massstab in Ellen, Faust und Zoll.

Scale of ells, palms and inches.

Echelle en aunes, palmes et pouces.

BARGE (TREKSCHUIT).



Schaal Massstab 1:100 Scale Echelle

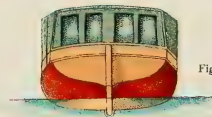
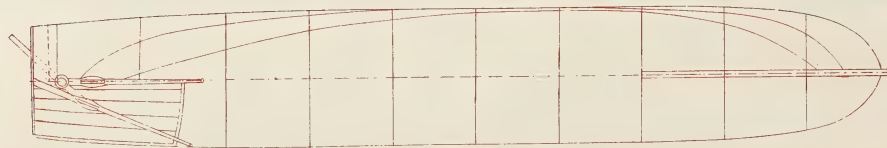


Fig. 78.

PAKSCHUIT (UTRECHT).



Schaal Massstab 1:100 Scale Echelle

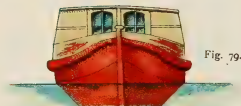
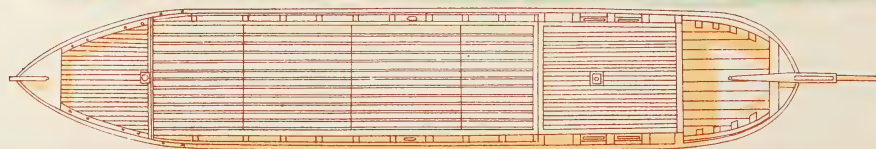
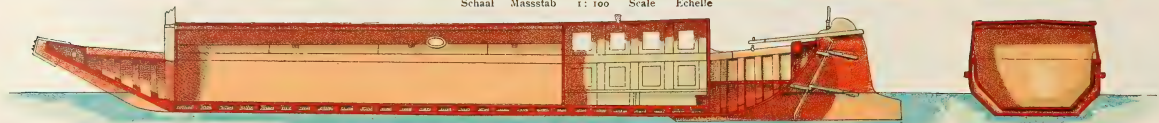
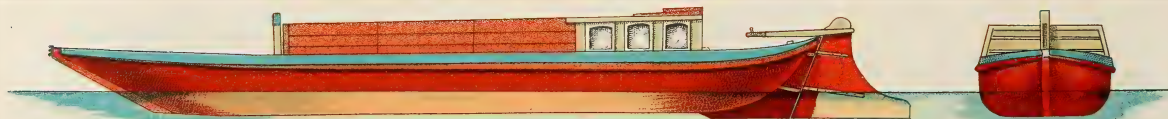
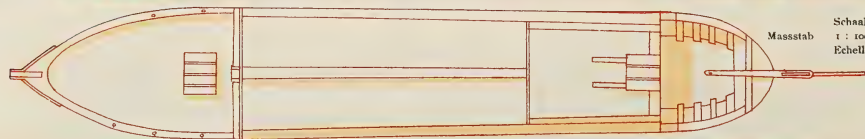
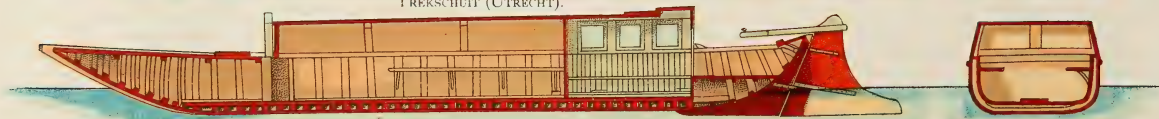


Fig. 79.



TREKSCHUIT (UTRECHT).



Massstab
Schaal
1:100
Echelle

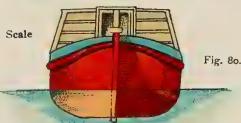
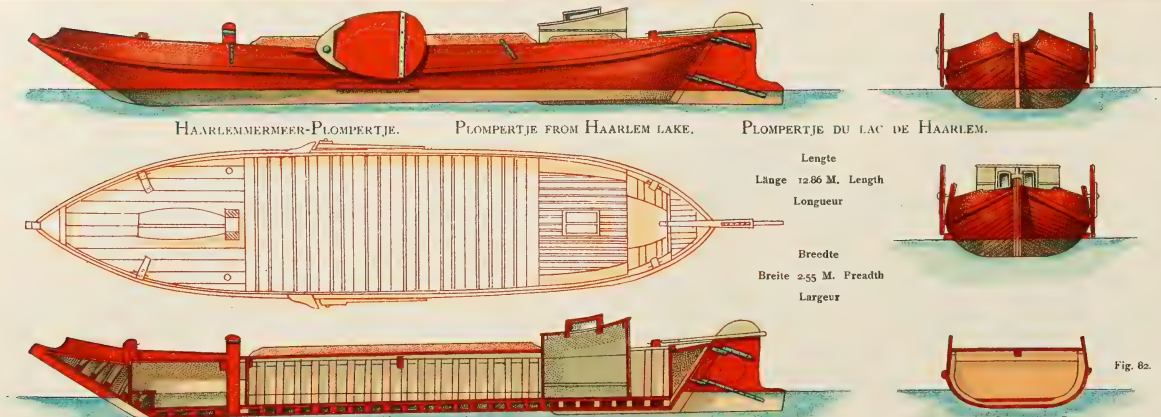
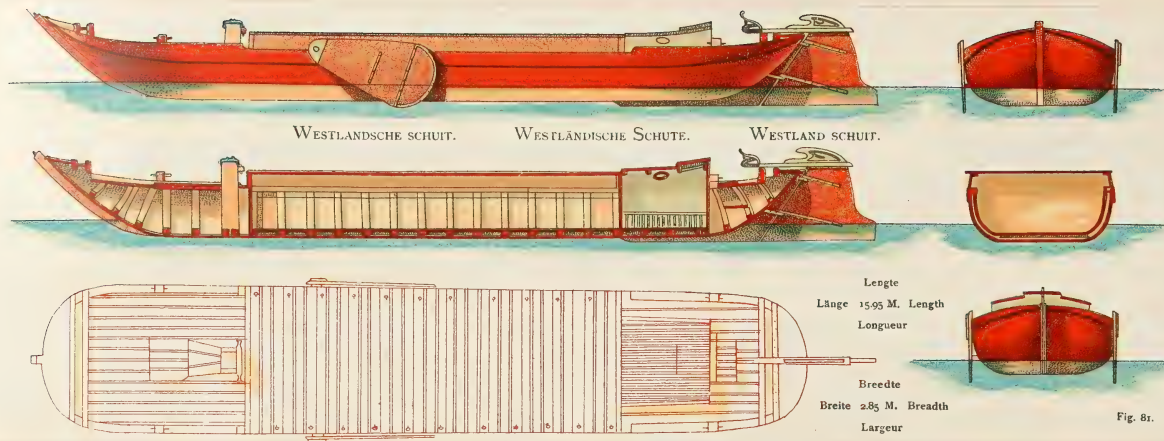
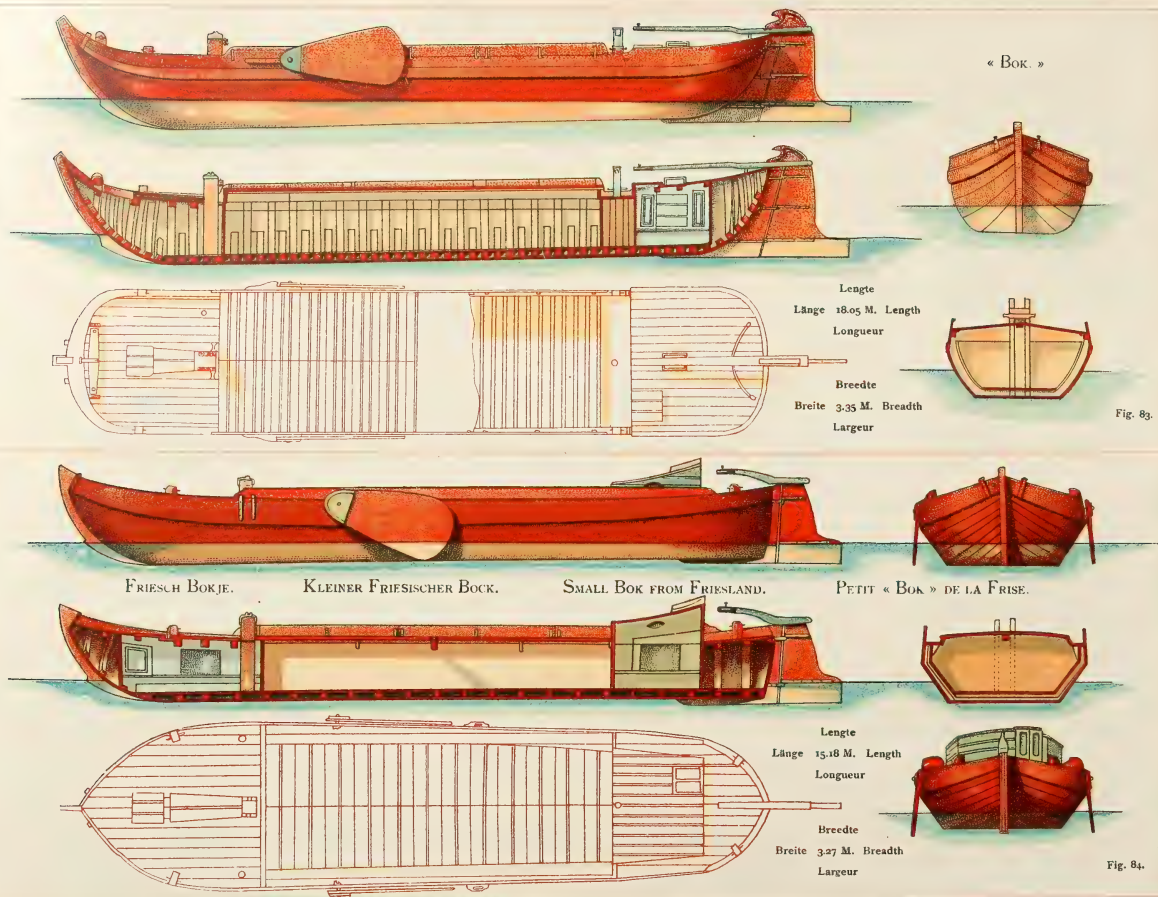


Fig. 80.





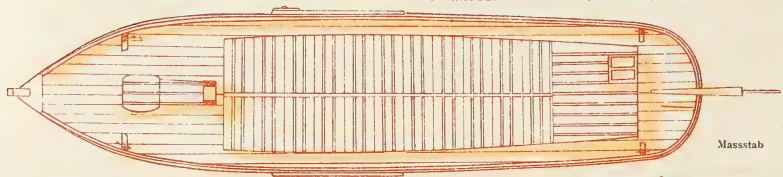
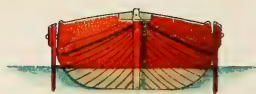


FRIESCHE SNIK.

FRIESISCHE SCHNIGGE.

SNIK FROM FRIESLAND.

SNIK DE LA FRISE.



Schaal

Massstab

1 : 100

Scale

Echelle

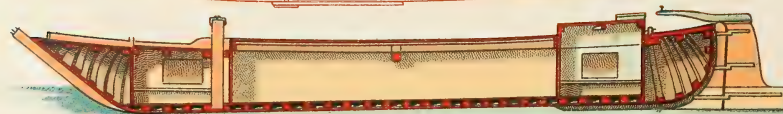
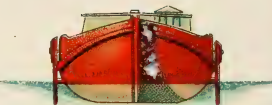
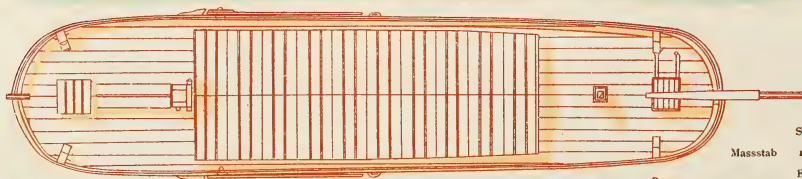
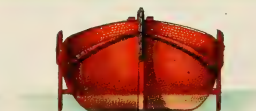


Fig. 85.



« GRONINGER AARDAPPELPRAM. »



Schaal

Massstab

1 : 100

Scale

Echelle



Fig. 86.

« KROMME RIJNAAK. »



Schaal
Maastab 1:100 Scale
Echelle

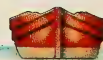


Fig. 87.

« UTRECHTSCH E PRAAM. »



Lengte
Länge 14.10 M. Length
Longueur

Breedte
Breite 2.15 M. Breadth
Largeur

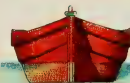
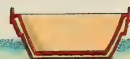
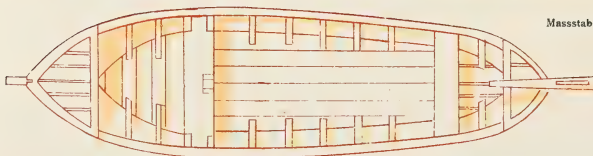
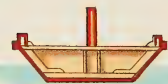
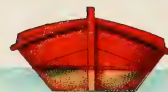


Fig. 88.

GROENTESCHUIT (HOORN).



Schaal
1 à 50
Scale
Echelle

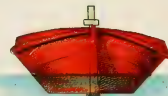


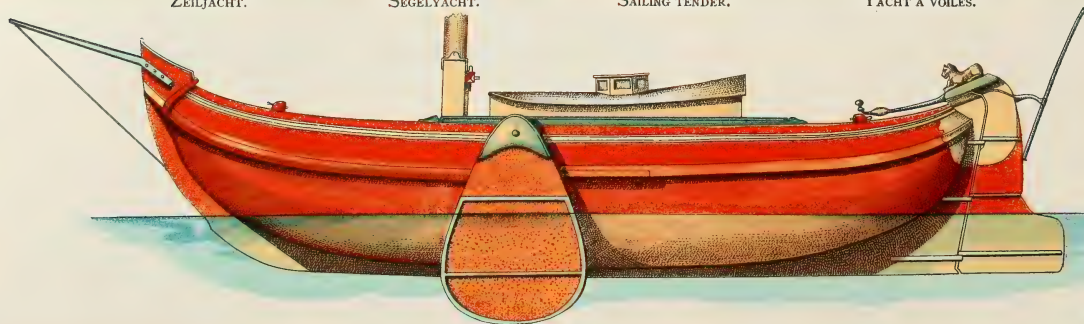
Fig. 89.

ZEIJLJACHT.

SEGELYACHT.

SAILING TENDER.

YACHT A VOILES.



Schaal Massstab 1 à 50 Scale Echelle

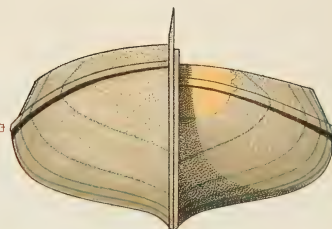
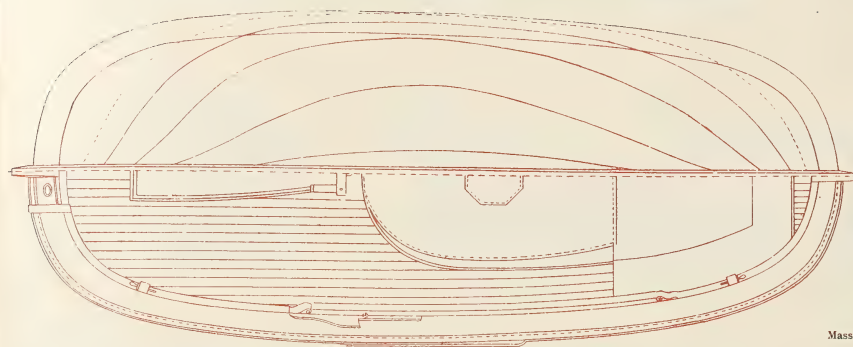
Fig. 90.

ZEILJACHT.

SÉGELYACHT.

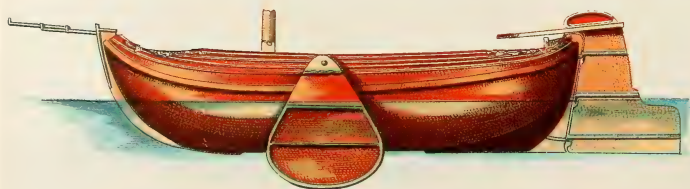
SAILING TENDER.

YACHT A VOILES.

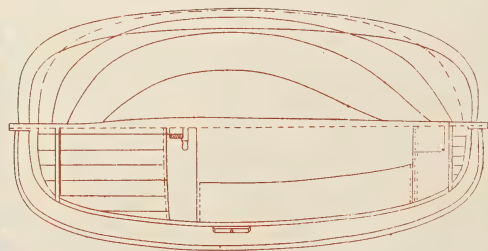


Schaal
 Massstab 1 à 50 Scale
 Echelle

Fig. 90.

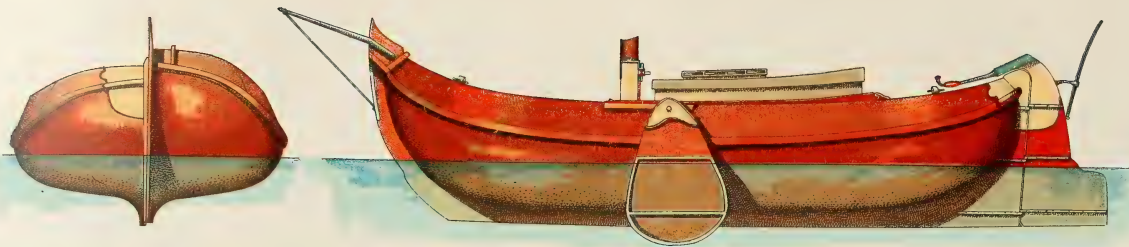


(FRIESLAND) « TJOTTER » (FRISE)



Schaal
 Massstab 1 à 50 Scale
 Echelle

Fig. 91.



BOEIER.

BUJER.

TENDER.

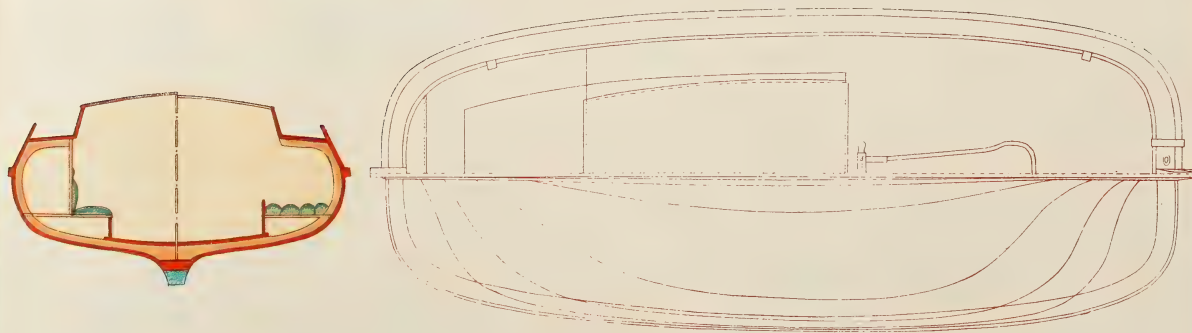


Fig 92.

DORSTENSCH E AAK.

AKE FROM DORSTEN.

AQUE DE DORSTEN.

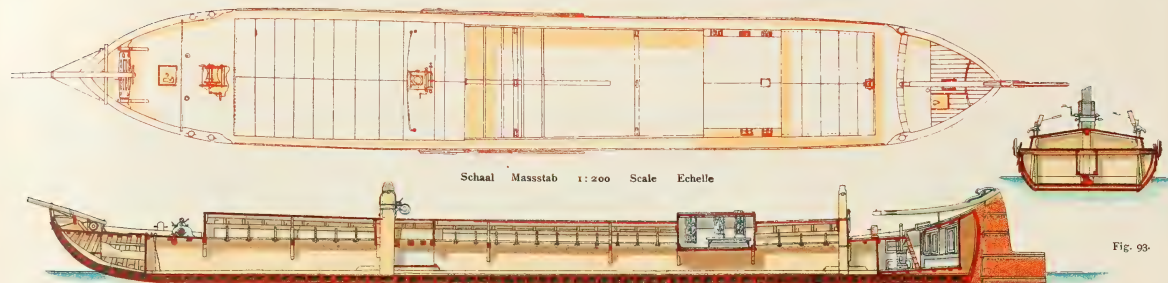


Fig. 93.

NECKARA AAK.

AKE FROM THE NECKAR.

AQUE DU NECKAR.

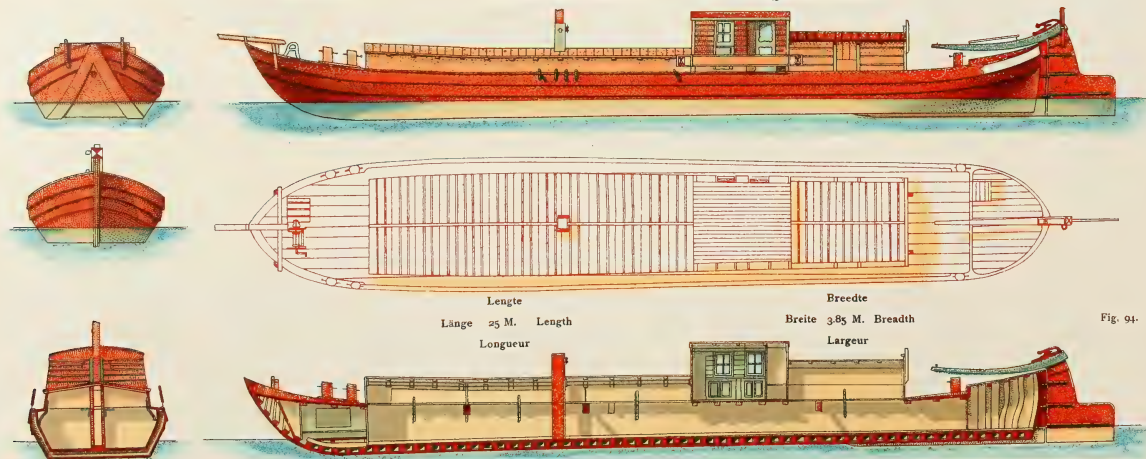
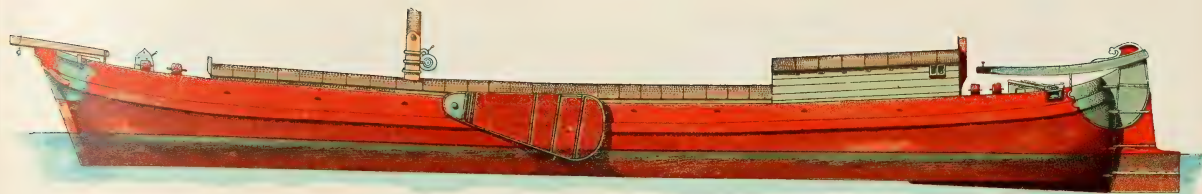
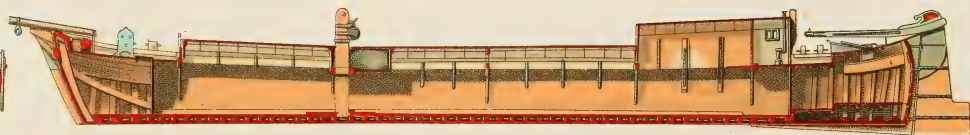
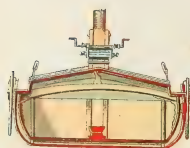


Fig. 94.



« STEVENSCHIP. »



Lengte
 Länge 31.85 M. Length
 Longueur

Breedte
 Breite 5.80 M. Breadth
 Largeur

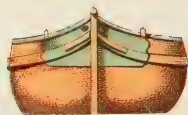


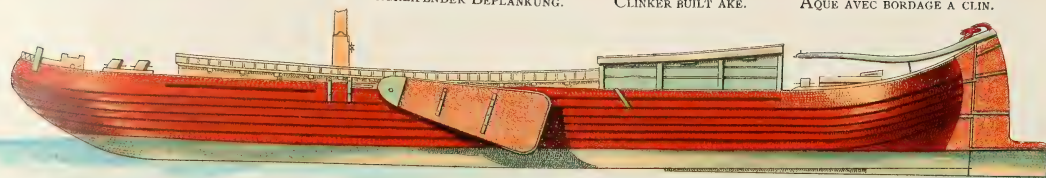
Fig. 95.

OVERBOORDIGE AAK.

AAK MIT ÜBERGREIFENDER BEPLANKUNG.

CLINKER BUILT AKE.

AQUE AVEC BORDAGE A CLIN.



Schaal Massstab 1:100 Scale Echelle

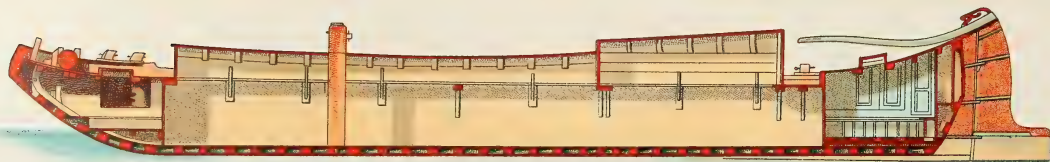
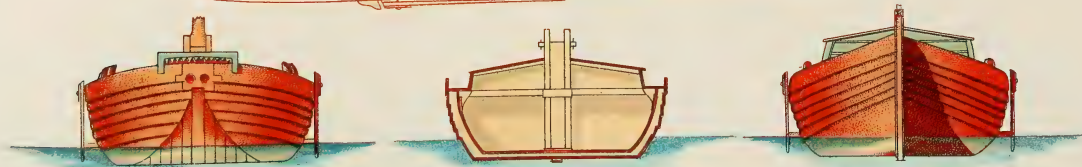
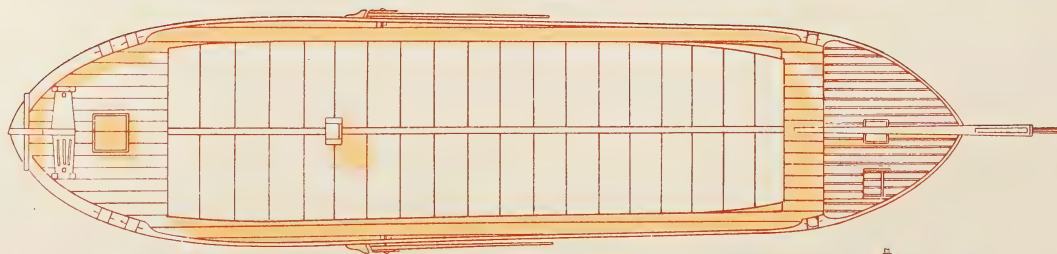


Fig. 96.



OVERBOORDIGE HOLLANDSCHE AAK.

HOLLANDISCHE AAK MIT ÜBERGREIFENDER BEPLANKUNG.

HOLLAND CLINKER BUILT AKE.

AQUE DE HOLLANDE AVEC BORDAGE A CLIN.

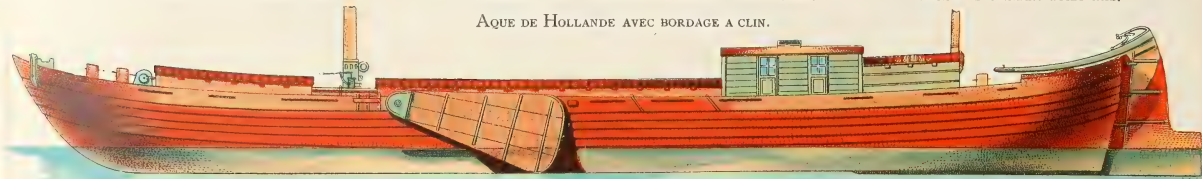
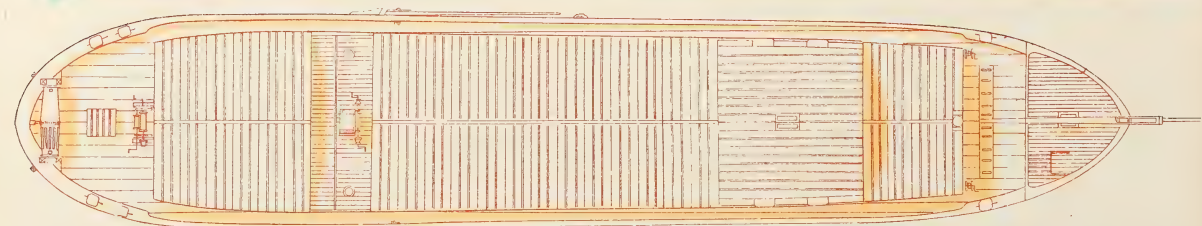
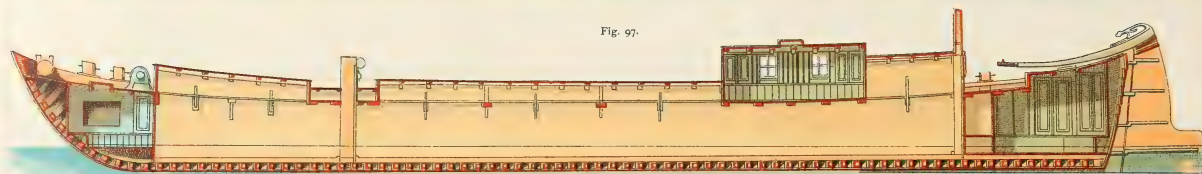
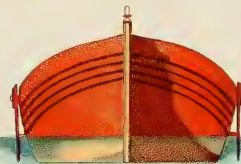
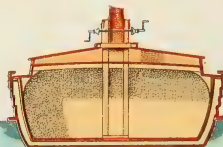
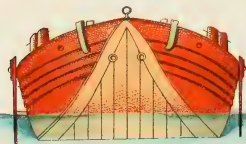


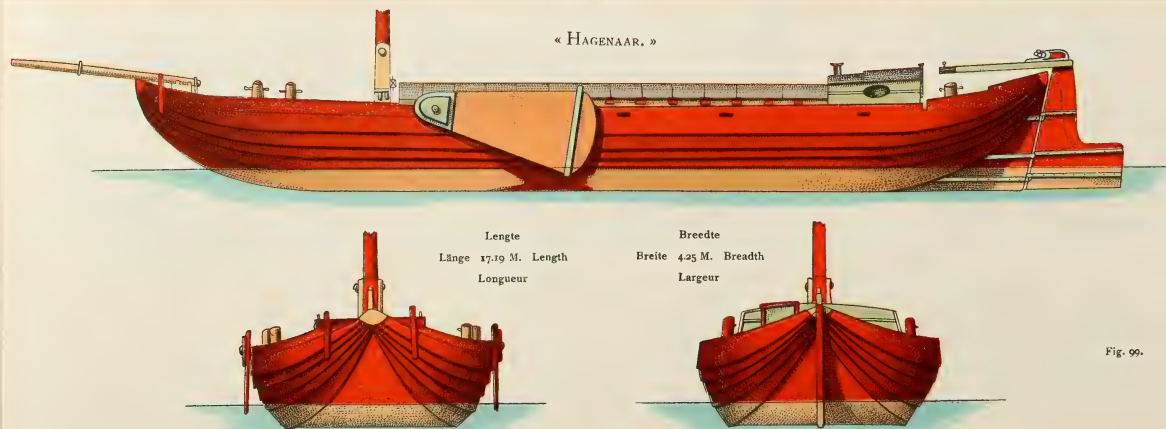
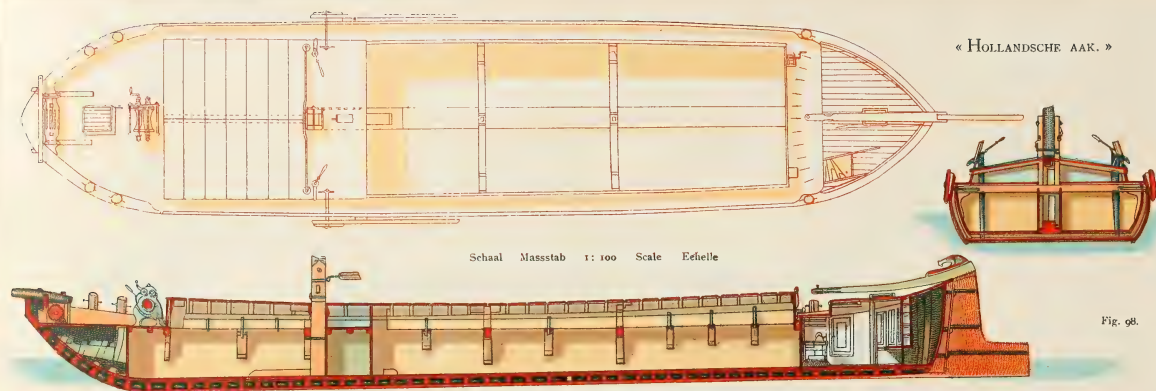
Fig. 97.



Lengte
Länge 32 M. Length
Longueur

Breedte
Breite 6 M. Breadth
Largeur





HAGENAAR.

SCHIFF VOM HAAG.

BOAT FROM THE HAGUE

BATEAU DE LA HAYE.

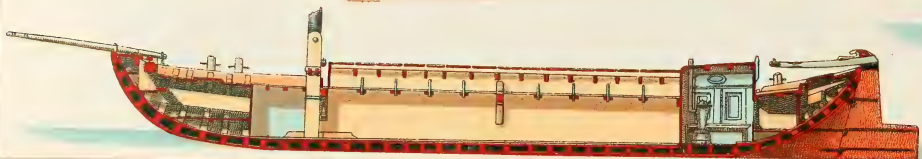
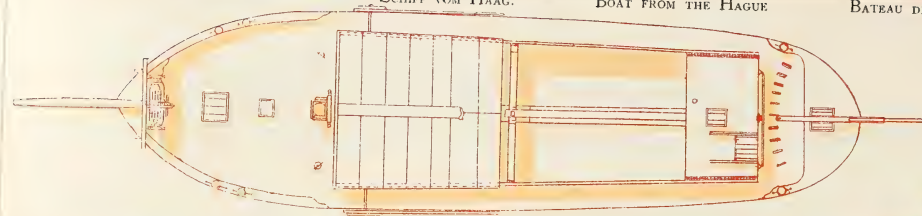
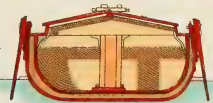
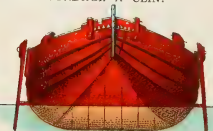
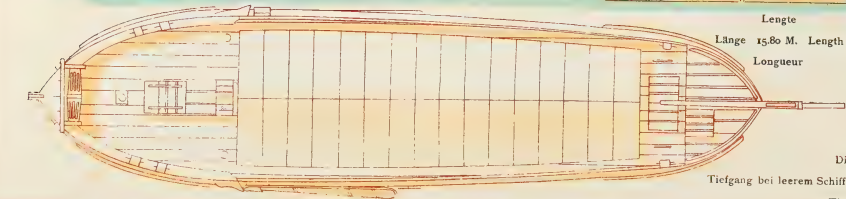
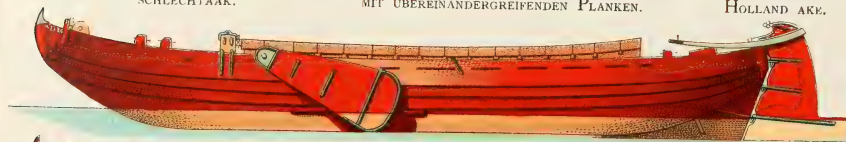


Fig. 99.

HOLLANDSCHE OVERBOORDIGE
SCHLECHTAAK.HOLLÄNDISCHE SCHLECHTAAK
MIT ÜBEREINANDERGREIFENDEN PLANKEN.CLINKER BUILT
HOLLAND AKE.«SCHLECHTAAK» HOLLANDAIS
AVEC BORDAGE À CLIN.

Länge 15.80 M. Length 15.80 M. Length
Breite 3.80 M. Breadth 3.80 M. Breadth
Longueur 15.80 M. Longueur 15.80 M. Longueur

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.30 M. Draught when light

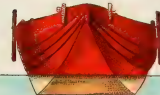
Tirant d'eau à vide

Fig. 100.

TURFIJKER (OVERBOORDIG)

TORFAHN MIT ÜBEREINANDERGRIEFENDEN PLANKEN.

CLINKER BUILT TURFIJKER.

« TURFIJKER » AVEC
BORDAGE A CLIN.

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.35 M. Draught when light

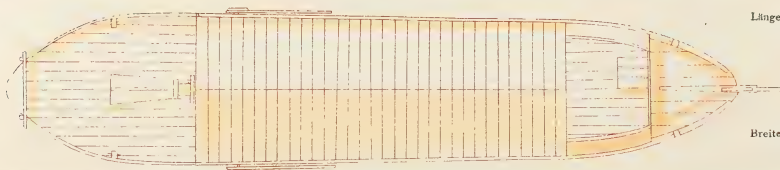
Tirant d'eau à vide



Lengte

Länge 15.75 M. Lenght

Longueur



Breedte

Breite 3.15 M. Breadth

Largeur

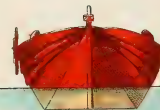


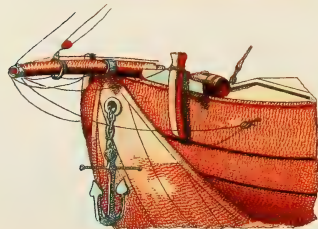
Fig. 101.

S'GRAVENMOERSCHIE AAK.

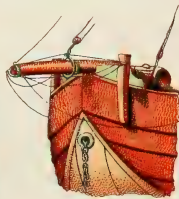
AAK VON S'GRAVENMOER.

AAK FROM S'GRAVENMOER.

AAK DE S'GRAVENMOER.



1



2

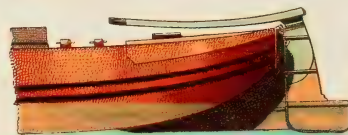


Fig. 102.

Voor- en achteraanzicht
(Het klaphekken is vervangen door een roer).Vorder- und Hintenansicht
(Das Klapheck ist durch ein Steuerruder
ersetzt).Front and rear views
(The « klaphekken » is replaced
by a rudder).Vue de face et vue postérieure
(Le « klaphekken » est remplacé par un gouvernail).

S'GRAVENMOERSCHE AAK.

AAK VON S'GRAVENMOER.

AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.

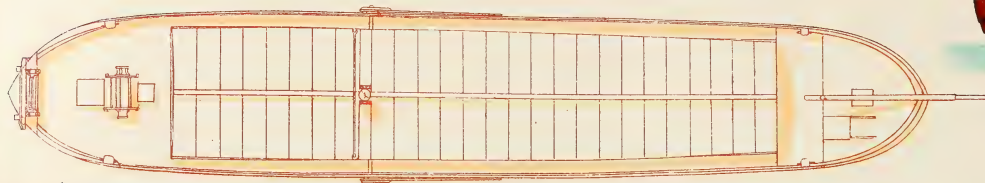
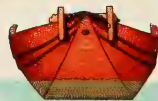
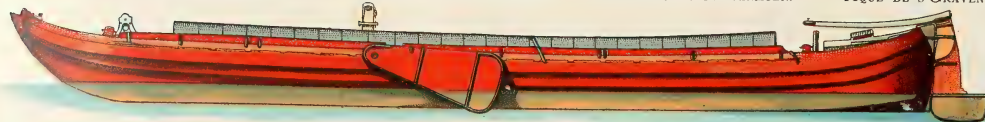


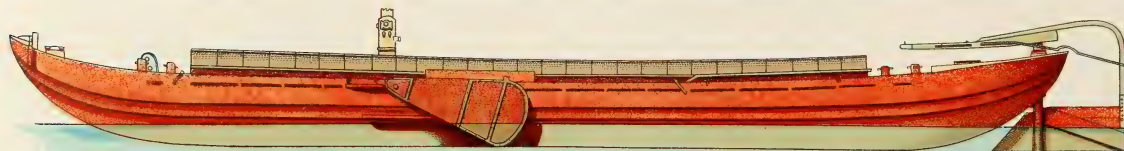
Fig. 103.

S'GRAVENMOERSCHE AAK.

AAK VON S'GRAVENMOER.

AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.



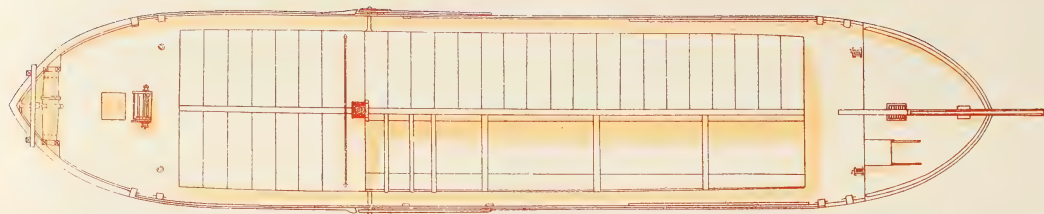
Länge
Länge 27.10 M. Lenght
Longueur

Breedte
Breite 5.40 M. Breadth
Largeur



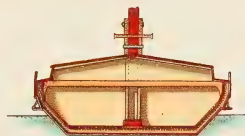
Diepgang leegvlot
Tiefgang bei leerem Schiff 0.36 M. Draught when light
Tirant d'eau à vide

Fig. 104.



s'GRAVENMOERSCHE AAK.

AAK VON s'GRAVENMOER.



AKE FROM s'GRAVENMOER.

AQUE DE s'GRAVENMOER.

Fig. 104.

« KEEN. »

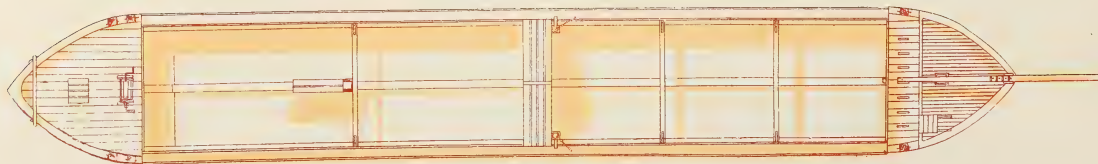


Fig. 105.

« KEEN. »



Diepgang leegvloet

Tiefgang bei leerem Schiff 0.40 M. Draught when light

Tirant d'eau à vide



Lengte
42 M. Length
Longueur



Breedte
6 M. Breadth
Largeur

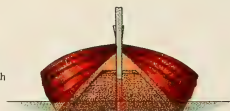


Fig. 105.

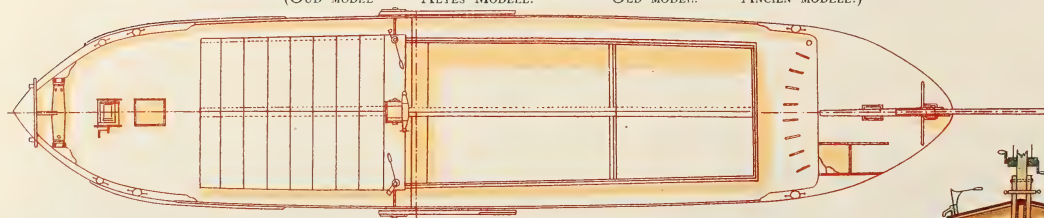
(OUD MODEL

ALTES MODELL.

« KEEN. »

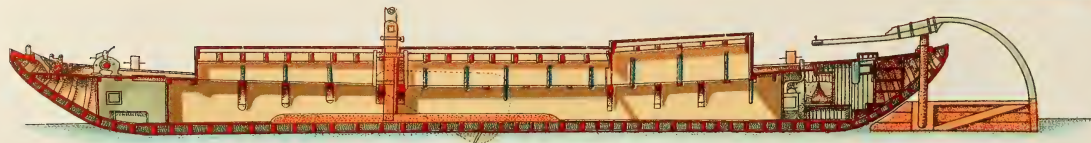
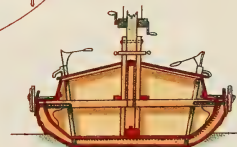
OLD MODEL.

ANCIEN MODÈLE.)



Länge
22.65 M. Length
Longueur

Breedte
4.63 M. Breadth
Largeur



Diepgang leegvloet

Tiefgang bei leerem Schiff 0.35 M. Draught when light

Tirant d'eau à vide

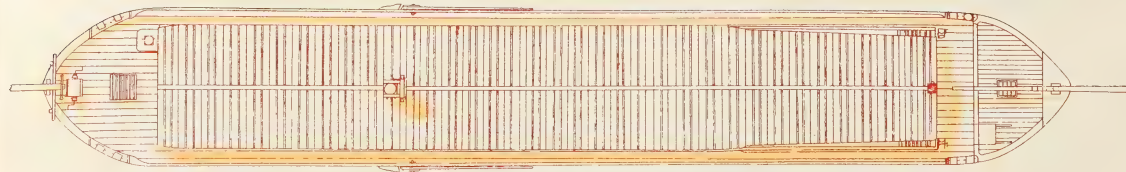
Fig. 106.

« KEENAAK. »



Lengte
Länge 36.45 M. Length
Longueur

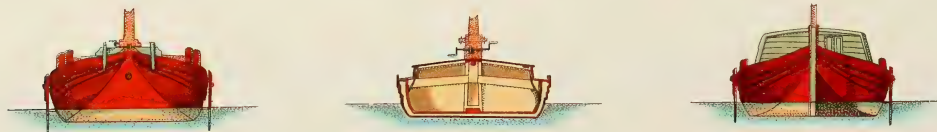
Breedte
Breite 5.56 M. Breadth
Largeur



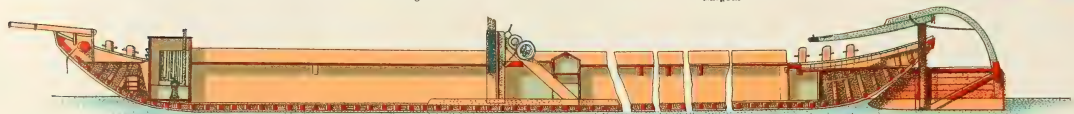
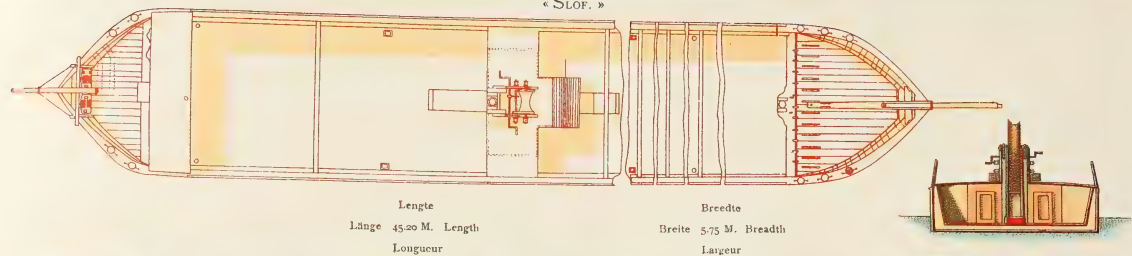
Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide



Fig. 107.



« SLOF. »



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.40 M. Draught when light

Tirant d'eau à vide

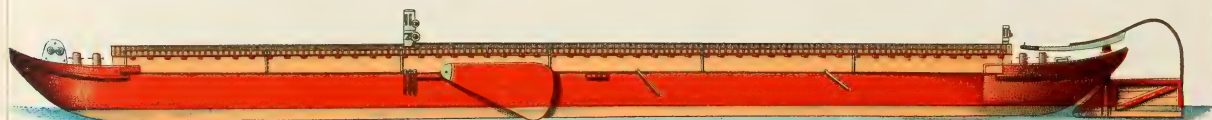
Fig. 108.

OVERDEKTE AAK.

GEDECKTE AAK.

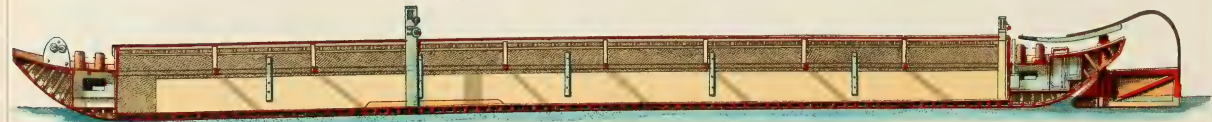
COVERED AKE.

AQUE COUVERTE D'ÉCOUTILLES.



Länge
Lange 40.67 M. Length
Longueur

Breedte
Breite 5.65 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.47 M. Draught when light

Tirant d'eau à vide

Fig. 109.

OVERDEKTE AAK.

GEDECKTE AAK.

COVERED AKE.

AQUE COUVERTE D'ÉCOUTILLES.

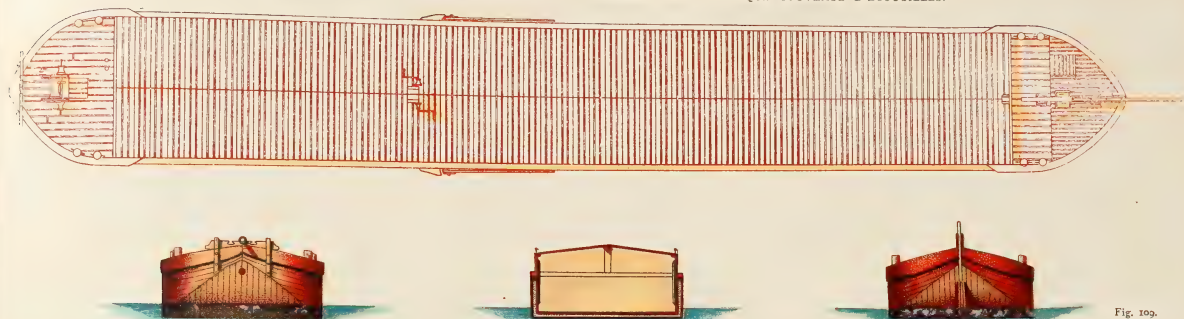


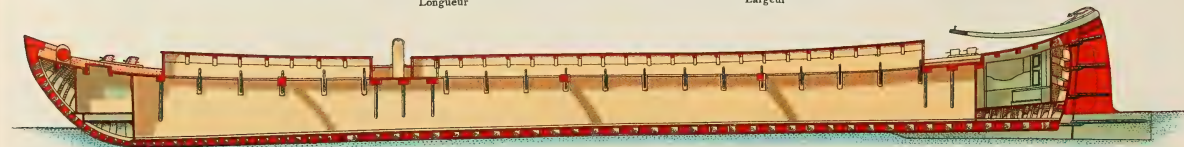
Fig. 109.

« BUNDER. »



Länge 34 M. Length
 Longueur

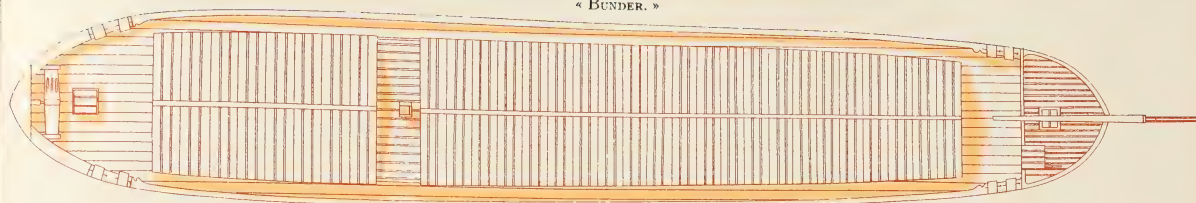
Breite 6 M. Breadth
 Largeur



Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.70 M. Draught when light
 Tirant d'eau à vide

Fig. 110.

« BUNDER. »



Länge
Länge 34 M. Length
Longueur

Breedte
Breite 6 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.70 M. Draught when light
Tirant d'eau à vide

Fig. 110.

« HERNA. »

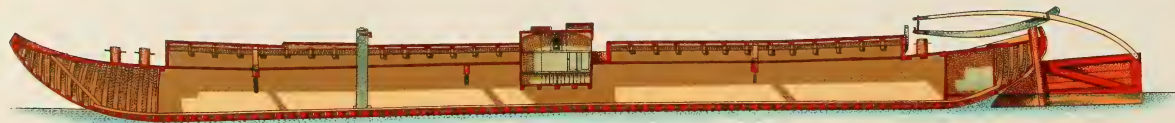


Fig. 111.

« HERNÄ. »



Länge
35 M. Length
Longueur

Breedte
5 M. Breadth
Largeur

Diepgang leegvlot
Tiefgang bei leerem Schiff 0.40 M. Draught when light
Tirant d'eau à vide

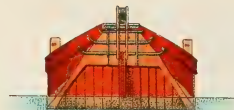
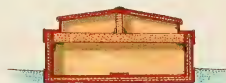
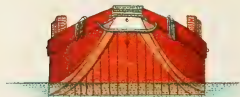


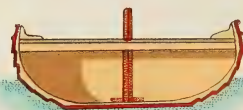
Fig. 111.

« EGMONDER PINK »



Länge
9.80 M. Length
Longueur

Breedte
3.36 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide

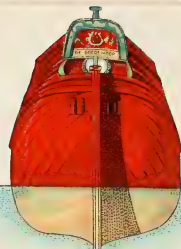
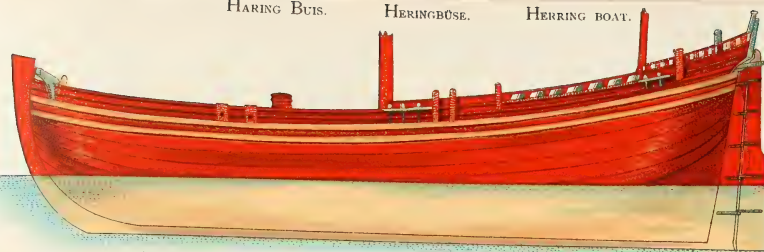


Fig. 112.

HARING BUIS.

HERINGBÜSE.

HERRING BOAT.



Länge	Breite	Diepgang leegvlot
Länge 14.56 M. Length	Breite 4.04 M. Breadth	Tiefgang bei leerem Schiff 1.12 M. Draught when light
Longueur	Largeur	Tirant d'eau à vide

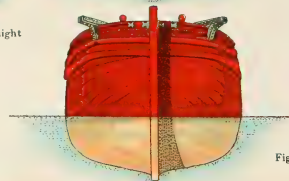
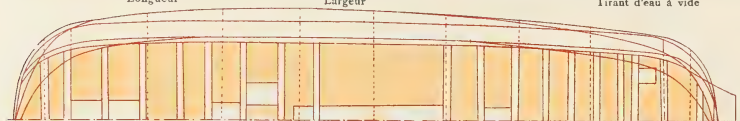


Fig. 113.

VISCHHOEKER.

FISCHERHÖCKER.

FISH HOWKER.

HOURQUE DE PÊCHE.

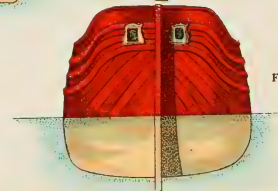
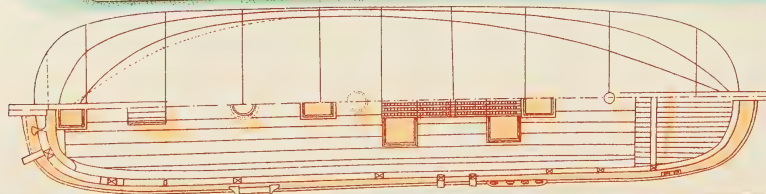
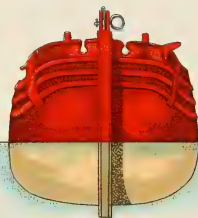
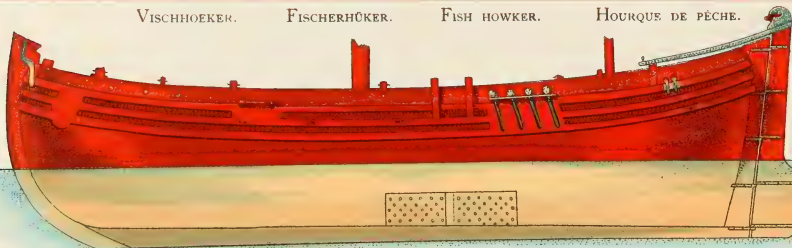
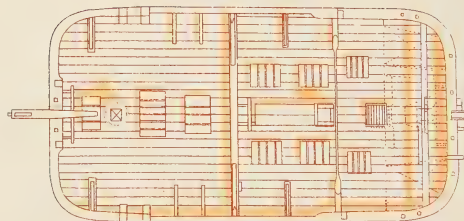
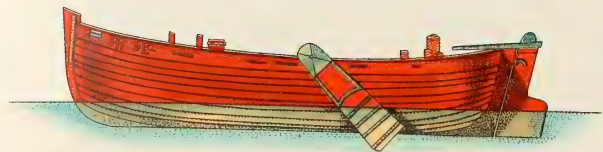


Fig. 114.

« Bom. »

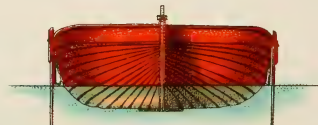
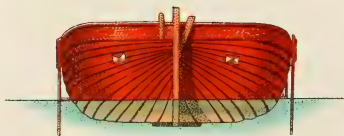


Länge

Länge 12 M. Length
Longueur

Breite

Breite 6 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.80 M. Draught when light

Ti ant d'eau à vide

Fig. 115.

GARNALEN SCHUIJJE.



KRABBEFISCHEREIBARKE.



SHRIMPER.



BARQUE DE PÊCHE AUX CREVETTES.

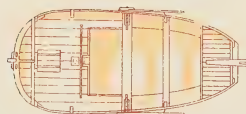


Lengte

Länge 7.10 M. Length
Longueur

Breedte

Breite 3.20 M. Breadth
Largeur

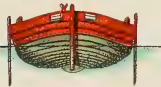


Diepgang leegvlot

Tiefgang bei leerem Schiff 0.90 M. Draught when light
Tirant d'eau à vide

Fig. 116.

GARNALEN SCHUIJJE MET BUN.

KRABBEFISCHEREIBARKE
MIT FISCHKASTEN.

SHRIMPER WITH WATER WELL.

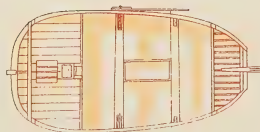
BARQUE DE PÊCHE AUX CREVETTES
AVEC BANNETON.

Lengte

Länge 7.50 M. Length
Longueur

Breedte

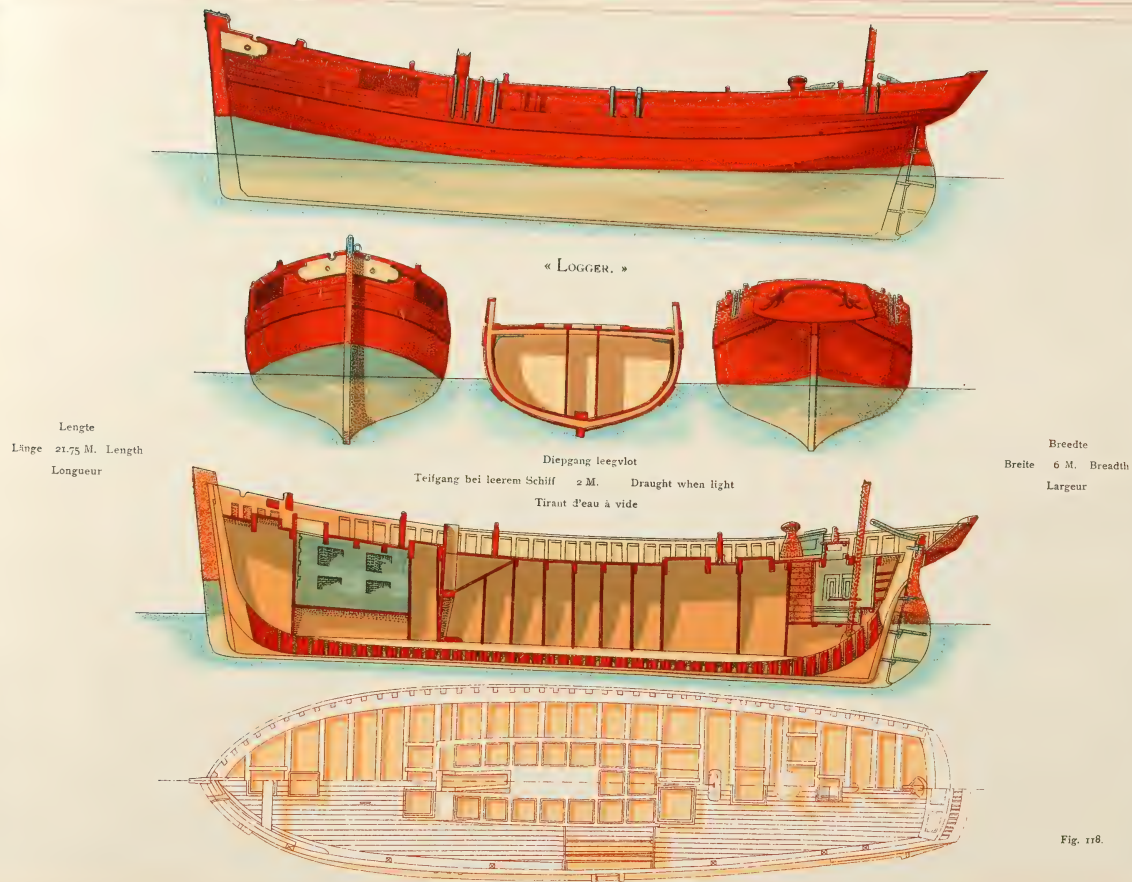
Breite 3.85 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.90 M. Draught when light
Tirant d'eau à vide

Fig. 117.

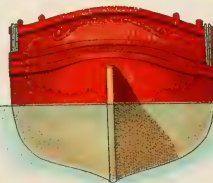
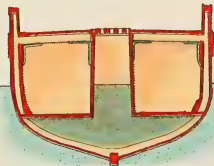
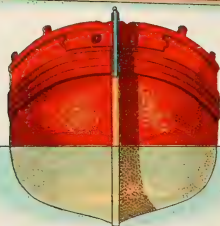
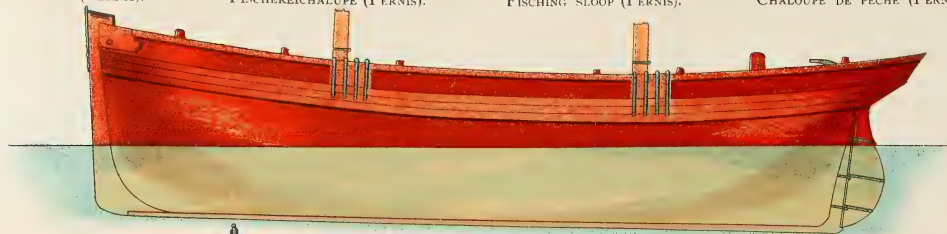


VISCHSLOEP (PERNIS).

FISCHEREICHALUPE (PERNIS).

FISHING SLOOP (PERNIS).

CHALOUPE DE PÊCHE (PERNIS).



Länge 22.60 M. Length
Longueur

Breite 5.95 M. Breadth
Largeur

Diepgang leegvlot

Tiefgang bei leerem Schiff 2.60 M. Draught when light

Tirant d'eau à vide

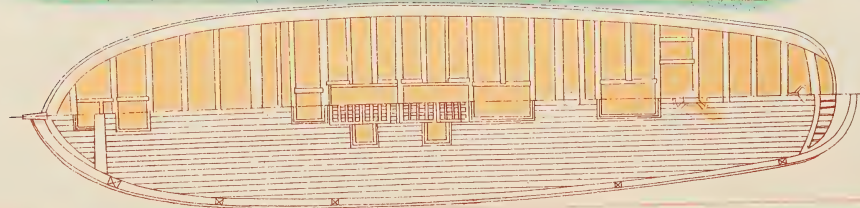
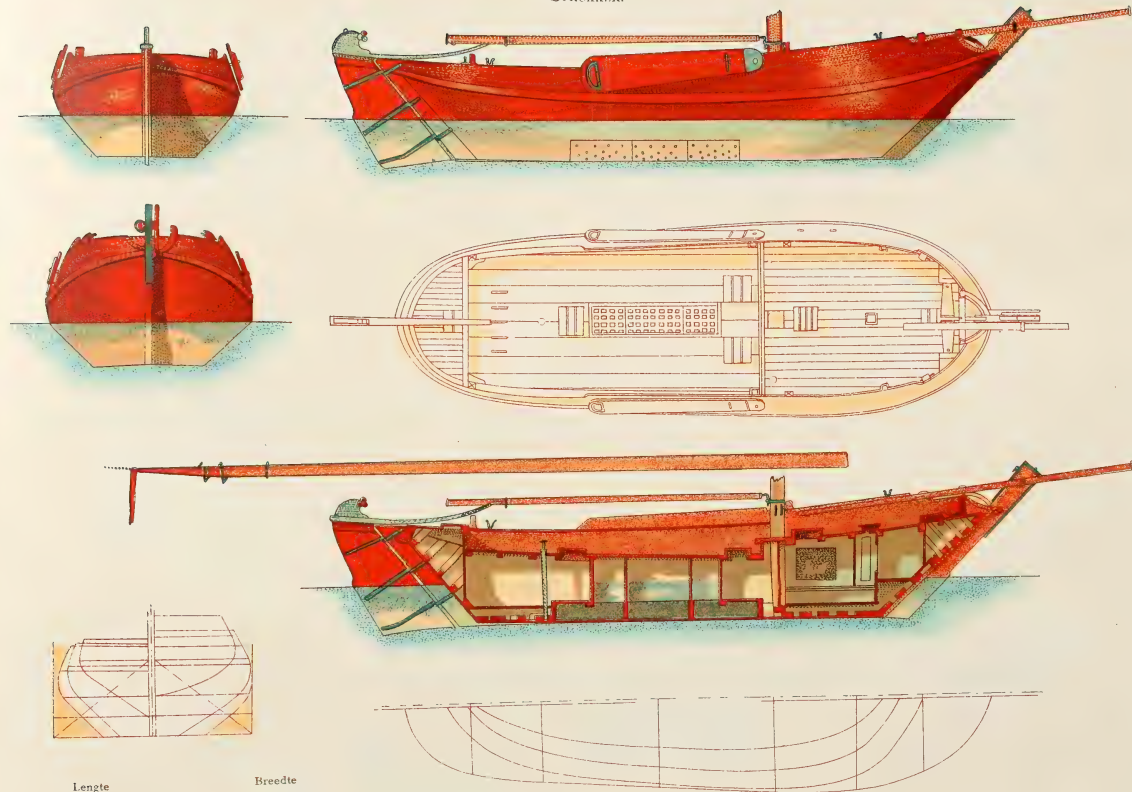


Fig. 119.

« SCHOKKER. »

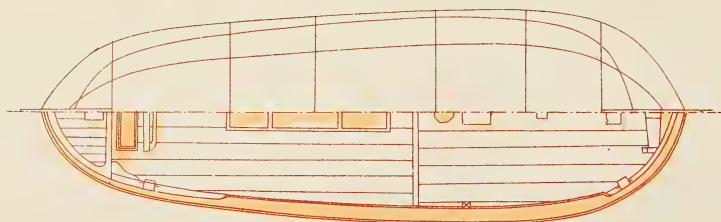
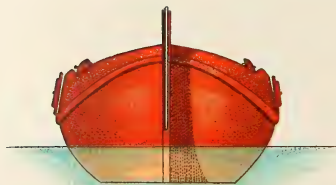
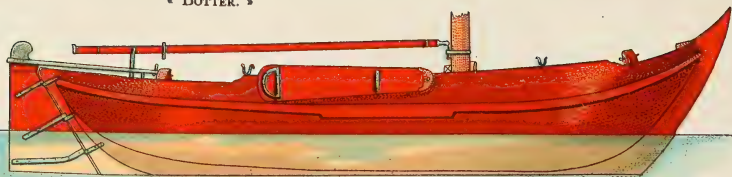
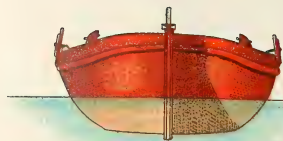


Länge	Breedte
Länge 15.40 M. Length	Breite 5.04 M. Breadth
Longueur	Largeur

Diepgang leegvlot
 Diepgang bij leeren Schiff 0.98 M. Draught when light
 Tirant d'eau à vide

Fig. 120.

« BOTTER. »



Länge
15,40 M. Length
Longueur

Breedte
5 M. Breadth
Largeur

Diepgang leegvlot
Tiefgang bei leerem Schiff 1 M. Draught when light
Tirant d'eau à vide

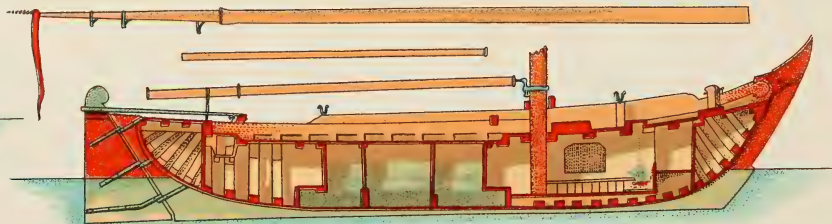


Fig. 121.

PLATJE VAN MAASSLUIJ.

PLATTSCHIFF VON MAASSLUIJ.

« PLATJE » FROM MAASSLUIJ.

« PLATJE » DE MAASSLUIJ.

Lengte
 Länge 12.60 M. Length
 Longueur

Breedte
 Breite 4.50 M. Breadth
 Largeur

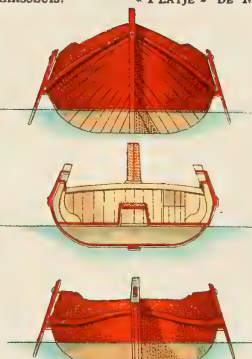
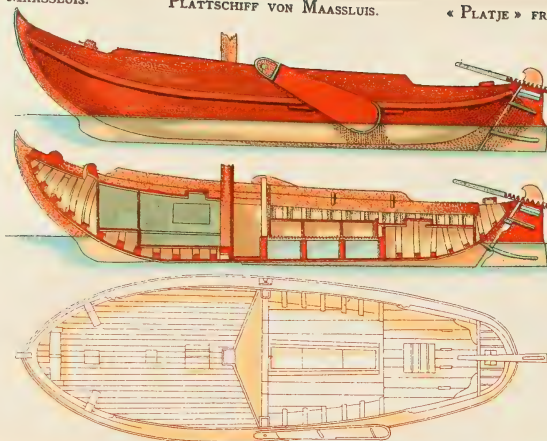


Fig. 122.

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.65 M. Draught when light
 Tirant d'eau à vide

HOORNSCHE BOTTER.

BOTTER VON HOORN.

« BOTTER » FROM HOORN.

« BOTTER » DE HOORN.

Lengte
 Länge 11 M. Length
 Longueur

Breedte
 Breite 3.85 M. Breadth
 Largeur

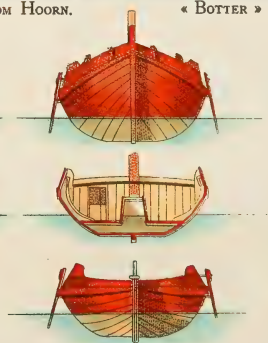
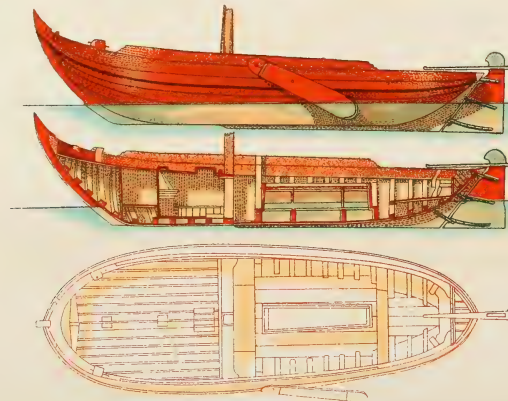


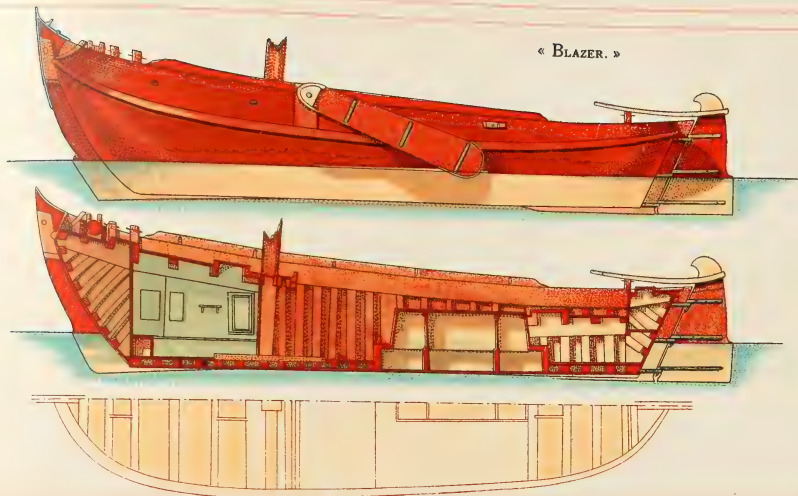
Fig. 123.

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.70 M. Draught when light
 Tirant d'eau à vide

« BLAZER. »

Länge	Breedte
14.42 M. Length	Breite 5.22 M. Breadth
Longueur	Largeur

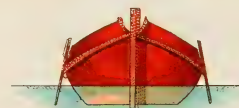
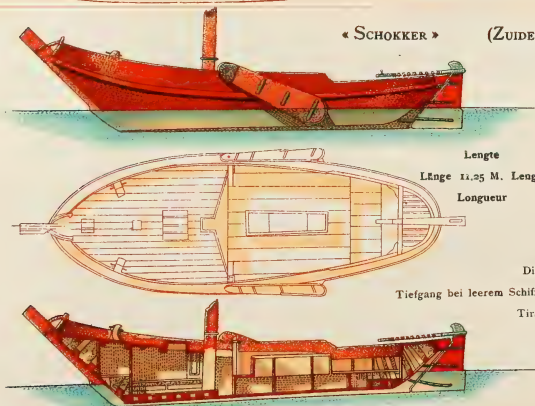


Diepgang leegvlot
 Tiefgang bei leerem Schiff 1.05 M. Draught when light
 Tirant d'eau à vide

Fig. 124.

« SCHOKKER » (ZUIDERZEE)

Länge	Breedte
11.25 M. Length	Breite 3.90 M. Breadth
Longueur	Largeur



Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.60 M. Draught when light
 Tirant d'eau à vide

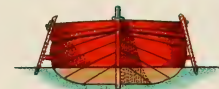
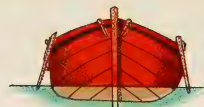
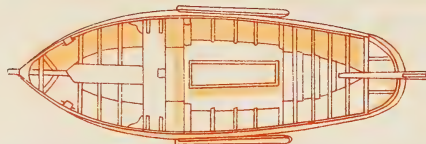


Fig. 125.

« KUBBOOT. »

Länge
 Länge 5.55 M. Length
 Longueur

Breedte
 Breite 1.80 M. Breadth
 Largeur



Diepgang leegvlot

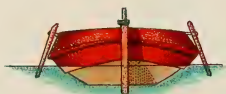
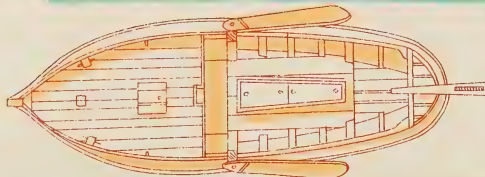
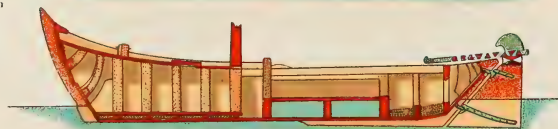
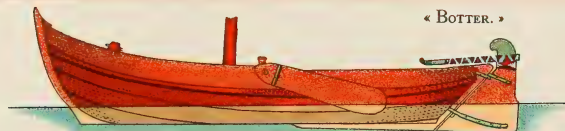
Tiefgang bei leerem Schiff 0.30 M. Draught when light
 Tirant d'eau à vide

Fig. 126.

« BOTTER. »

Länge
 Länge 6.12 M. Length
 Longueur

Breedte
 Breite 2.20 M. Breadth
 Largeur

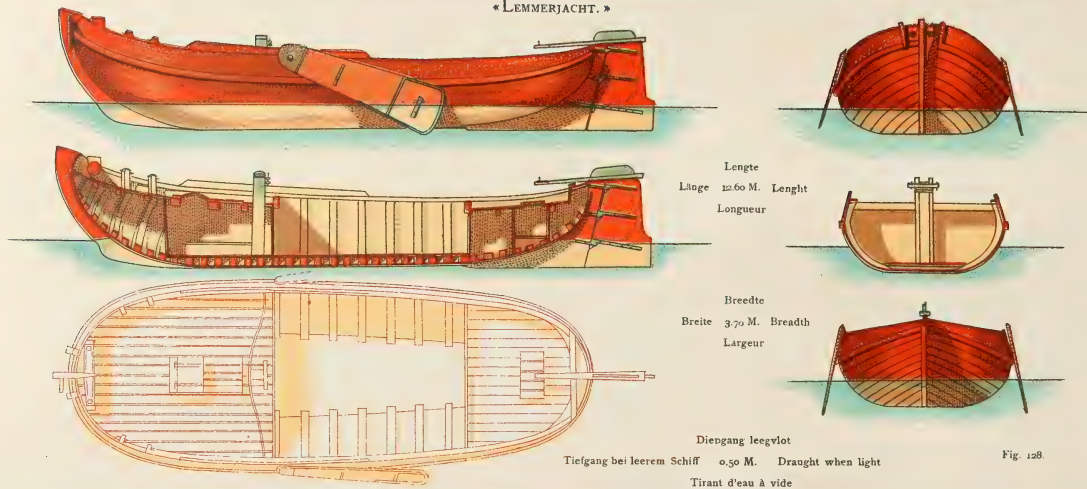


Diepgang leegvlot

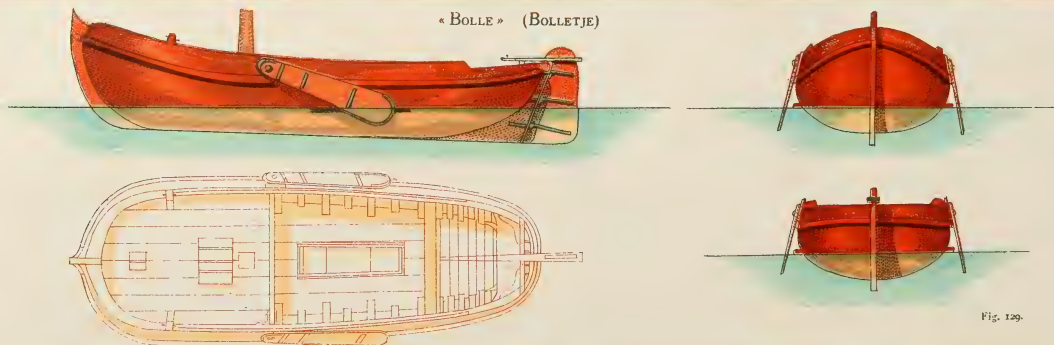
Tiefgang bei leerem Schiff 0.40 M. Draught when light
 Tirant d'eau à vide

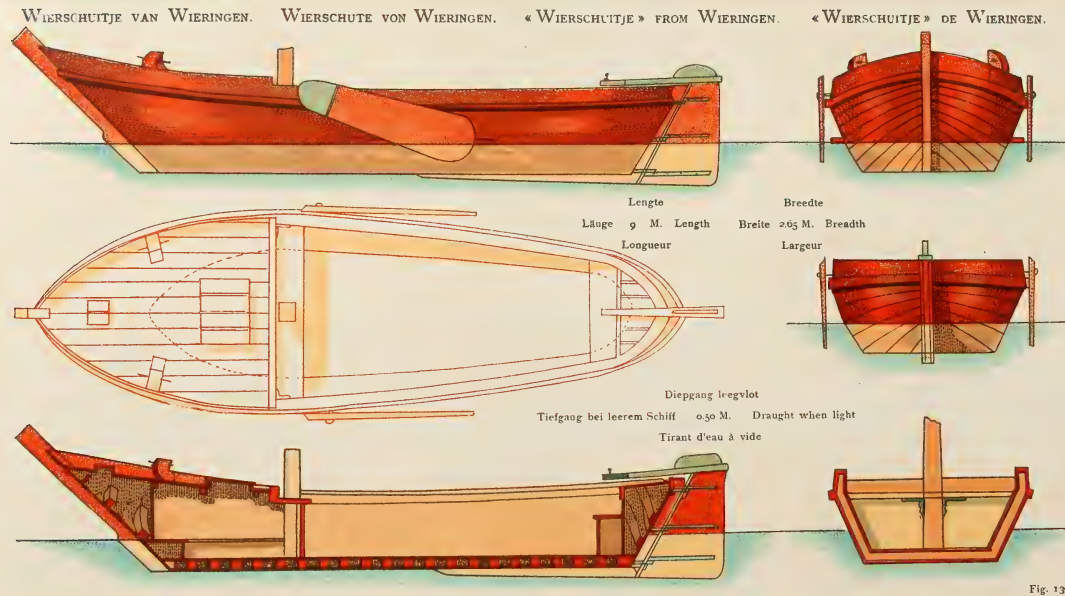
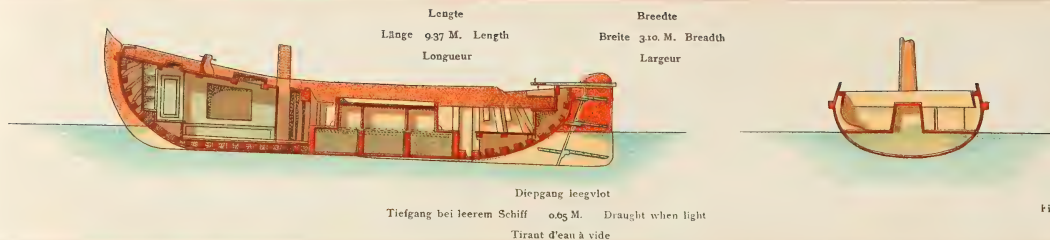
Fig. 127.

« LEMMERJACHT. »



« BOLLE » (BOLLETJE)





« HOOGAARS. »

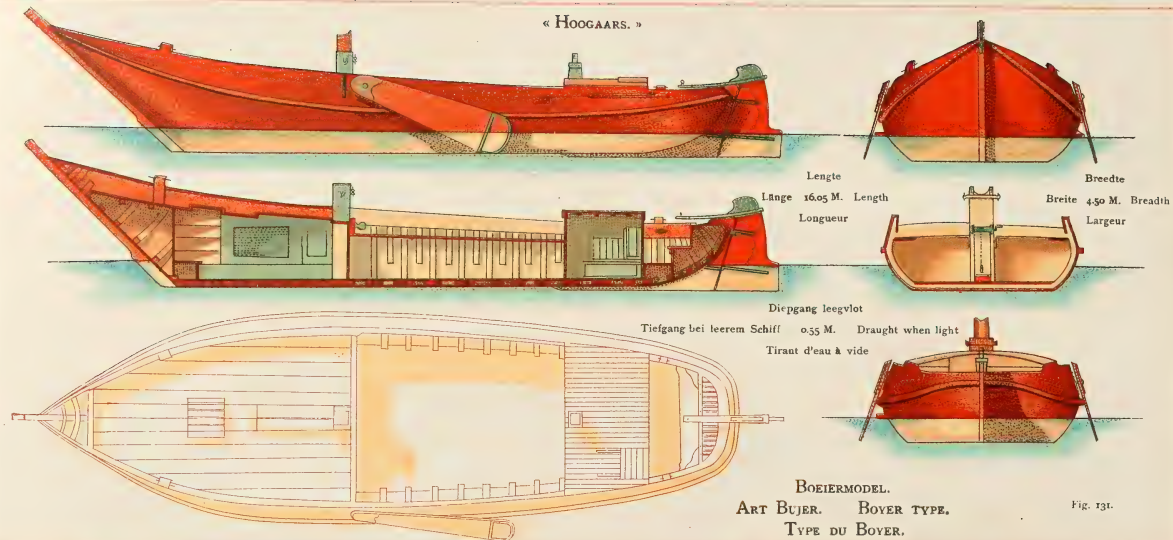


Fig. 131.

« HOOGAARS. »

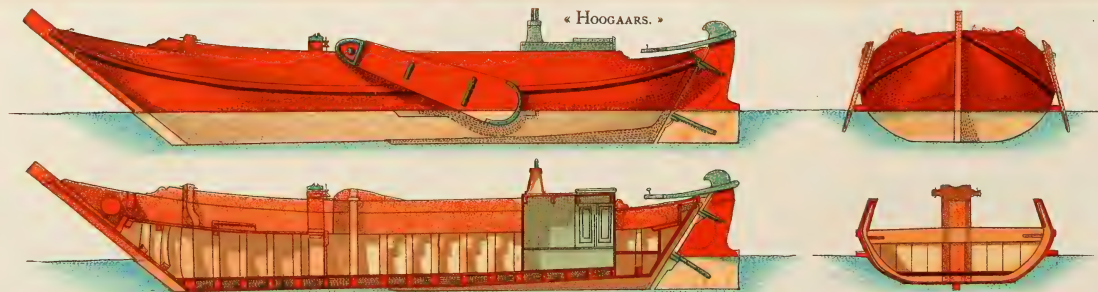


Fig. 132.

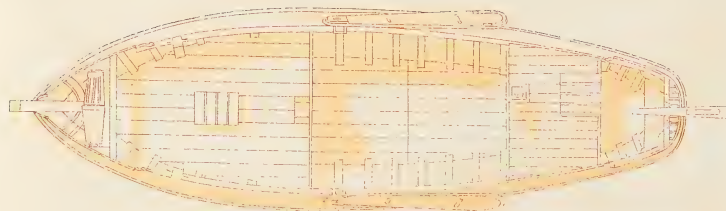
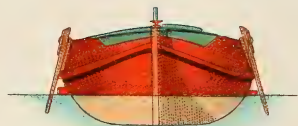


Fig. 132.

Länge	Breite	Diepgang leegvlot
Länge 15. M. Length	Breite 4. M. Breadth	Tiefgang bei leerem Schiff 0.50 M. Draught when light
Longueur	Largeur	Tirant d'eau à vide



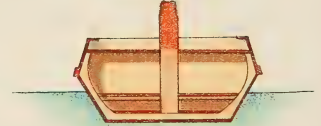
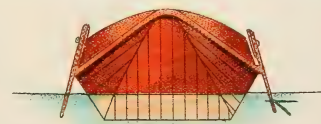
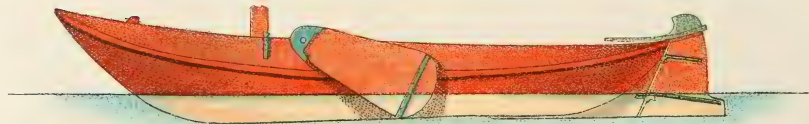
OUD MODEL.
 ALTES MODELL. OLD MODEL.
 ANCIEN MODÈLE.

THOLENSCHE SCHOOW.

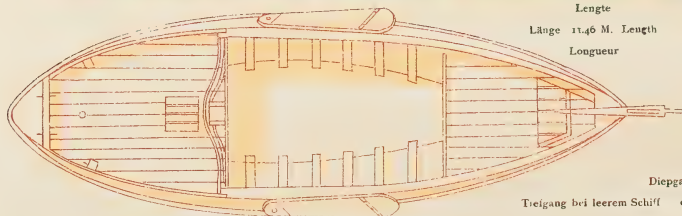
« SCHOOW » VON THOLEN.

« SCHOOW » FROM THOLEN.

« SCHOOW » DE THOLEN.



Länge	Breite
Länge 11.46 M. Length	Breite 3.30 M. Breadth
Longueur	Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide

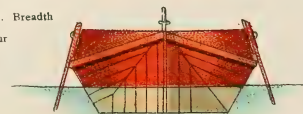
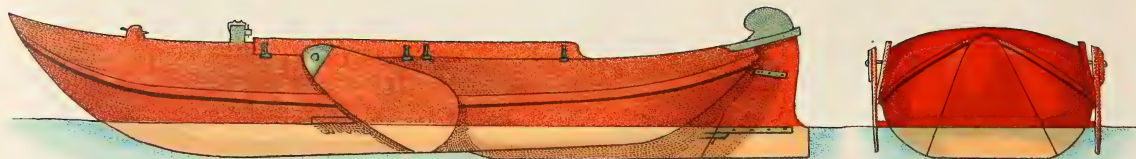


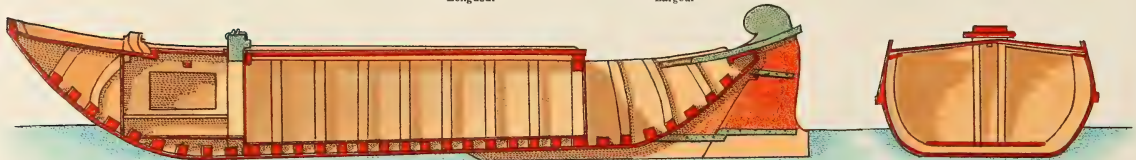
Fig. 133.

« BEIERLANDSCHE SCHUTT. »



Länge
Länge 955 M. Length
Longueur

Breite
Breite 275 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.37 M. Draught when light
Tirant d'eau à vide

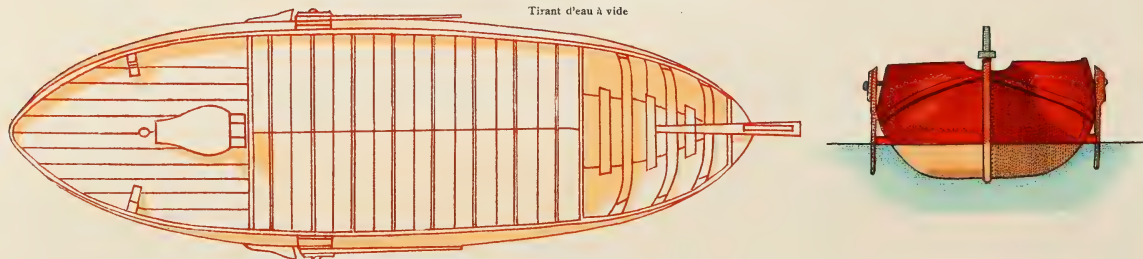
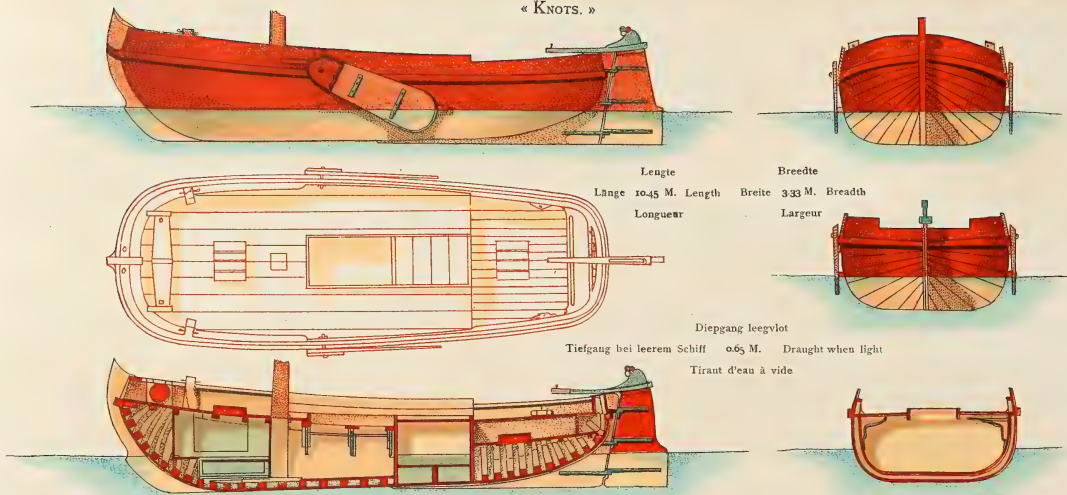


Fig. 134.

« KNOTS. »

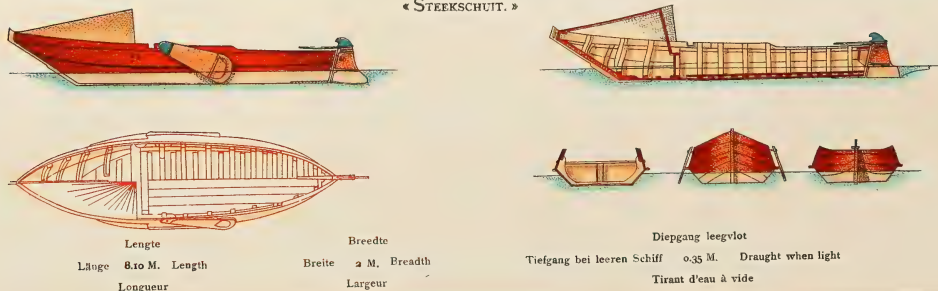


Lengte 10.45 M. Length 33.3 M. Breadth
 Länge 10.45 M. Length 33.3 M. Breadth
 Longueur 10.45 M. Length 33.3 M. Breadth

Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.65 M. Draught when light
 Tirant d'eau à vide

Fig. 135.

« STEEKSHUIT. »



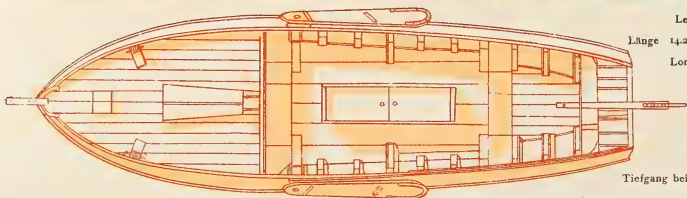
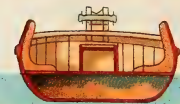
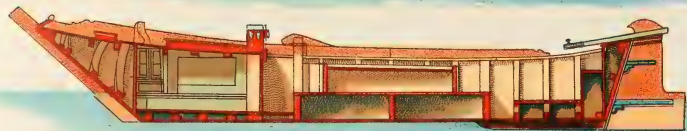
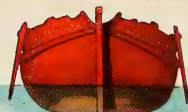
Lengte 8.10 M. Length 2 M. Breadth
 Länge 8.10 M. Length 2 M. Breadth
 Longueur 8.10 M. Length 2 M. Breadth

Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.35 M. Draught when light
 Tirant d'eau à vide

Fig. 136.



« VISCHGONDEL. »



Länge 14.20 M. Length 3.80 M. Breadth
 Länge 14.20 M. Length 3.80 M. Breadth
 Longueur 3.80 M. Largeur

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.60 M. Draught when light

Tirant d'eau à vide

Fig. 137.

VISCHSCHUIT (ALSMEER).

FISCHERBARKE (ALSMEER).

FISHING VESSEL (ALSMEER).

BARQUE DE PÊCHE (ALSMEER).



Länge 9.70 M. Length 2.94 M. Breadth
 Länge 9.70 M. Length 2.94 M. Breadth
 Longueur 2.94 M. Largeur



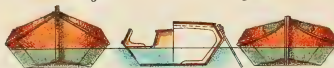
Diepgang leegvlot

Tiefgang bei leerem Schiff 0.60 M. Draught when light

Tirant d'eau à vide



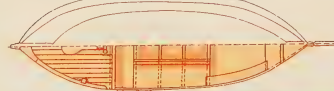
Länge 11.50 M. Length 3.60 M. Breadth
 Länge 11.50 M. Length 3.60 M. Breadth
 Longueur 3.60 M. Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.65 M. Draught when light

Tirant d'eau à vide



Länge 11.50 M. Length 3.60 M. Breadth
 Länge 11.50 M. Length 3.60 M. Breadth
 Longueur 3.60 M. Largeur



Diepgang leegvlot

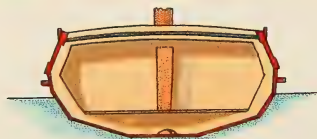
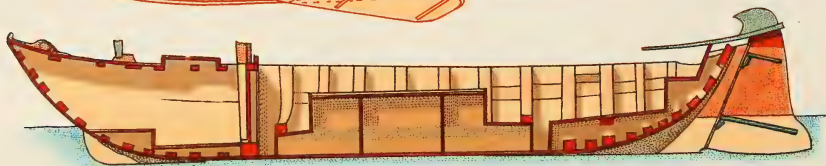
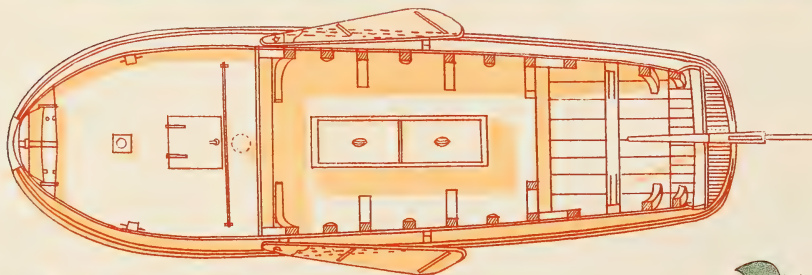
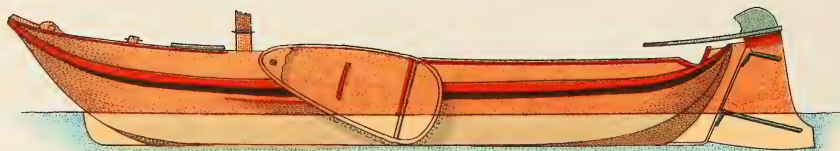
Tiefgang bei leerem Schiff 0.65 M. Draught when light

Tirant d'eau à vide



Fig. 138.

« BOEIERAAK. »

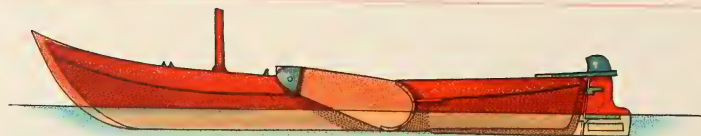


Lengte
10.40 M. Length
Longueur

Breedte
2.98 M. Breadth
Largeur

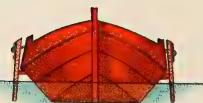
Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide

Fig. 139.

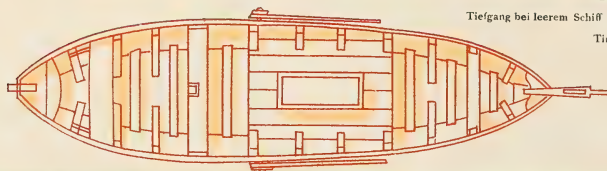
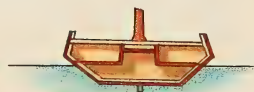


Lengte
Länge 8.10 M. Length
Longueur

VISCHSCHIJTJE.
FISCHERBARKE. (WOODRICHEM) SMALL FISHING VESSEL.
BARQUETTE DE PÊCHE.



Breedte
Breite 1.90 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.30 M. Draught when light
Tirant d'eau à vide

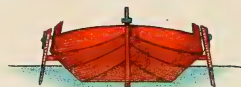


Fig. 140.

« PUNTER. »



Schaal
à 100 Scale
Echelle



Fig. 141.

« PRIKSCHIIT. »



Lengte
Länge 7.80 M. Length
Longueur

Breedte
Breite 2.02 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.30 M. Draught when light
Tirant d'eau à vide

Fig. 142.

« PUNTER. »

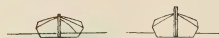


Fig. 143.

« STROOPERSCHUITJE. »



Schaal
 Massstab 1 à 20 Scale
 Echelle

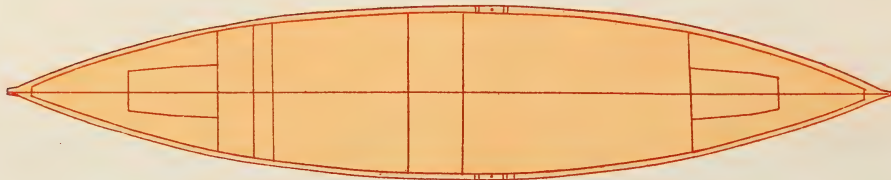


Fig. 143.

« VIEGER. »



Schaal
 Massstab 1 à 100 Scale
 Echelle



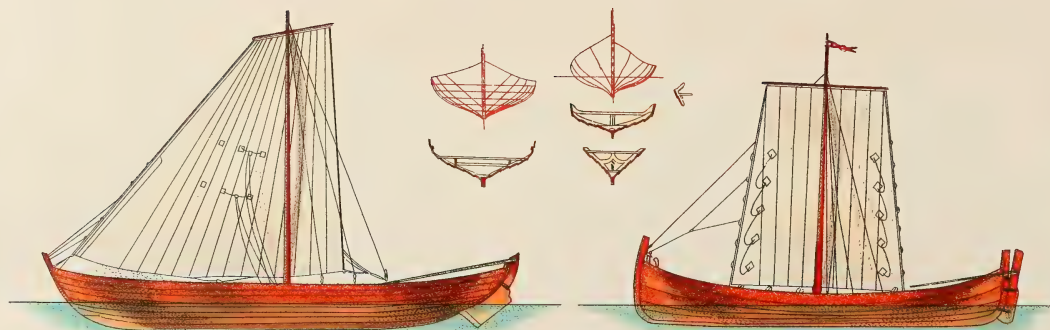
Fig. 144.

TUIGEN.

TAKELUNG.

RIG.

GRÉEMENTS.



VISSCHERSVAARTUIGEN.

FISCHEREIFAHRZÜGE

FISHING VESSELS.

BÂTEAUX DE PÊCHE.



NOORWEGEN.

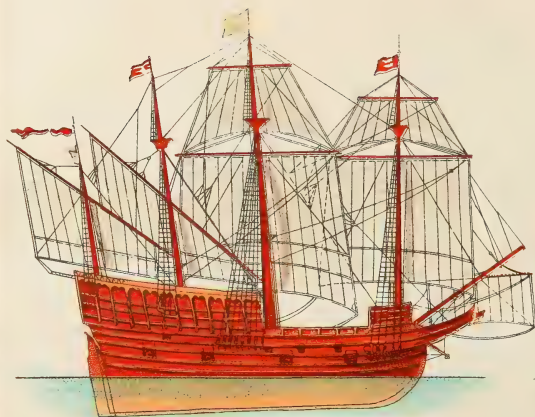
NORWEGEN.

NORWAY.

NORVÈGE.

Fig. 145.

16^e EEUW,
16. JAHRHUNDERT 16TH CENTURY
16^e SIECLE.

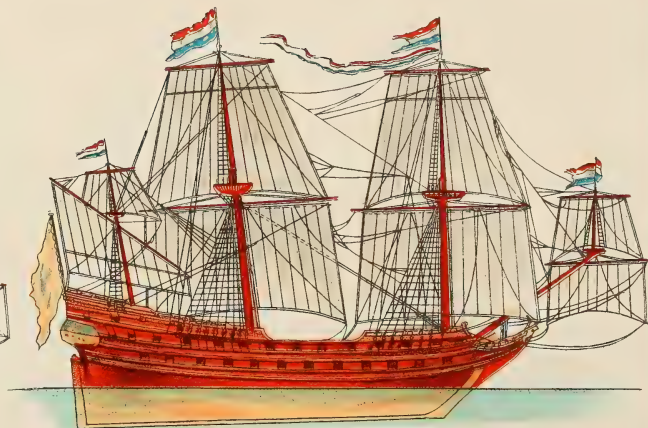


1450

NEDERLAND.

NIEDERLANDE.

17^e EEUW.
17. JAHRHUNDERT. 17TH CENTURY.
17^e SIECLE.



1650

NETHERLANDS.

PAYS-BAS.

Schaal
Maasstab 1 : 400 Scale
Echelle

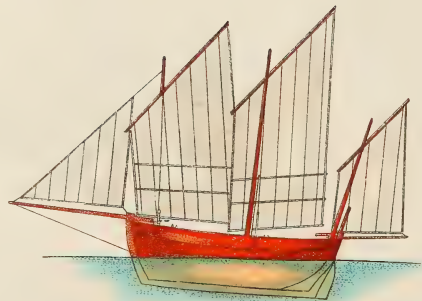
Fig. 146.

BEGIN DER 19^e EEUW.
ANFANG DES 19. JAHRHUNDERTS. BEGINNING OF THE 19TH CENTURY.
DÉBUT DU 19^e SIÈCLE.



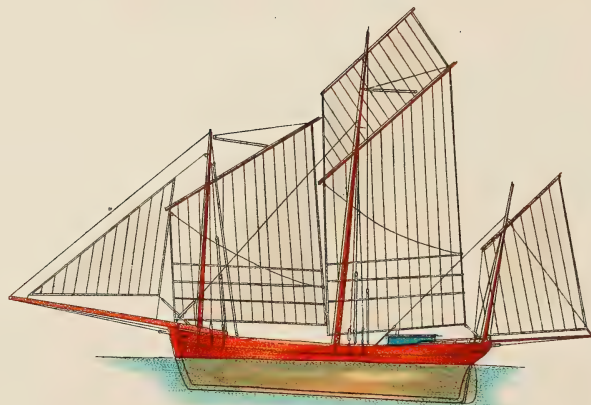
Fig. 147.

LOGGER.



LUGGER.

LOUGRE.



Schaal
 Maasstab 1 à 400 Scale
 Echelle

FRANKRIJK.

FRANKREICH.

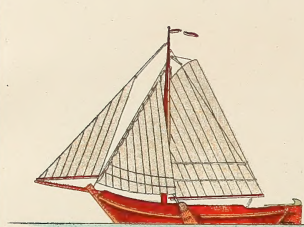
FRANCE.

NEDERLAND.

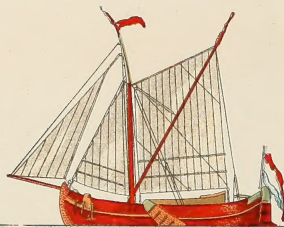
NIEDERLANDE.

NETHERLANDS.

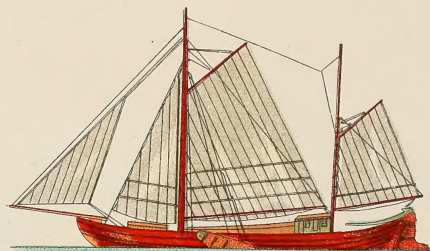
PAYS-BAS.



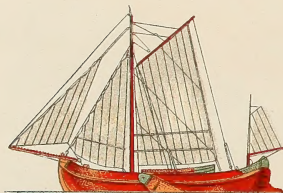
BEZAANTUIG.
BESANTAKELUNG. BESAN RIG.
GRÈEMENT D'ARTIMON.



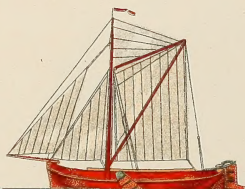
SPRIETTUIG (OUD MODEL).
SPRIETTAKELUNG (ALTE ART). SPRIT RIG (OLD FORM).
GRÈEMENT A LIVARDE (TYPE ANCIEN).



ANDERHALFMAST BEZAANTUIG.
BESANTAKELUNG MIT $1\frac{1}{2}$ MAST. BESAN RIG
WITH $1\frac{1}{2}$ MAST.
GRÈEMENT D'ARTIMON A $1\frac{1}{2}$ MAT.



GAFFELTUIG.
GAFFELTAKELUNG. FORE AND AFT RIG.
GRÈEMENT EN AURIQUE.



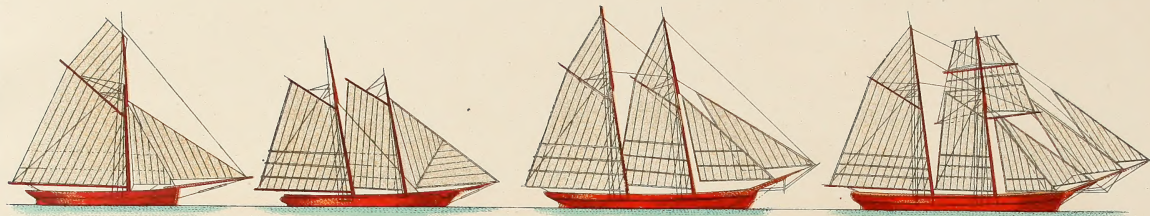
SPRIETTUIG (NIEUW MODEL).
SPRIETTAKELUNG (NEUE ART). SPRIT RIG (NEW FORM).
GRÈEMENT A LIVARDE
(TYPE NOUVEAU).



KUBBOOTTUIG.
KUBBOOTTAKELUNG. KUBBOOT RIG.
GRÈEMENT A KUBBOOT.



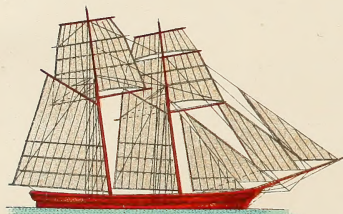
BEZAANTUIG MET BEWEEGBARE STENG.
BESANTAKELUNG MIT
BEWEGLICHER STENGE.
GRÈEMENT D'ARTIMON A MAT
DE HUNE MOBILE.



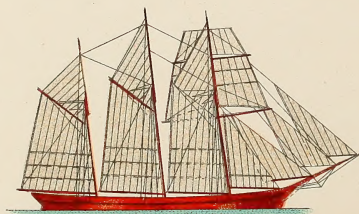
KOTTERTUIG.
KUTTERTAKELUNG. CUTTER RIG.
GRÉEMENT EN COTRE.

SCHOENERTUIG.
SCHONERTAKELUNG. SCHOONER RIG.
GRÉEMENT EN GOËLETTE.

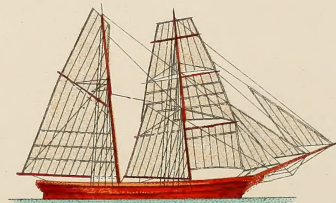
TOPZEILSCHOENER.
TOPSEILSCHONER. TOPSAIL SCHOONER.
GOËLETTE CARRÉE.



BRIGANTEIN.
BRIGANTINE. BRIGANTINE.
BRIGANTINE.



DRIEMASTSCHOENER.
DREIMASTSCHONER. THREE-MASTED SCHOONER.
GOËLETTE A TROIS MATS.



SCHOENERBRIK.
SCHONERBRICK. HERMAPHRODITE BRIG.
SCHOENERBRIK.

